THROMBATE III - antithrombin iii (human) THROMBATE III- antithrombin iii (human) GRIFOLS USA. LLC

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use THROMBATE III safely and effectively. See full prescribing information for THROMBATE III.

THROMBATE III [antithrombin III (human)]
Lyophilized Powder for Solution for Intravenous Injection

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RECENT MAJOR CI	HANGES
Indications and Usage (1)	7/2025
INDICATIONS AND	USAGE

THROMBATE III is a human antithrombin (AT) indicated in adult and pediatric patients with hereditary antithrombin deficiency for:

- Treatment and prevention of thromboembolism
- Prevention of peri-operative and peri-partum thromboembolism (1)

------ DOSAGE AND ADMINISTRATION ------

For intravenous use after reconstitution only

• Individualize dose to achieve AT level of 80% to 120% of normal human plasma. (2.1)

Dose	Target AT Level	Dose (Units)	Monitor AT Level
Loading	ng 120% of normal 120% - baseline % x body weight (kg) 12 ho		 20 minutes (peak) post- injection 12 hours post-injection
Adjustment (as needed)	80% to 120% of normal	Target % - trough % x body weight (kg) divided by 1.4%	 20 minutes (peak) post- injection at least every 12 hours post- injection pre-injection (trough)
Maintenance (every 24 hours, as needed)	80% to 120% of normal	Loading Dose x 0.6	 approximately every 24 hours, as needed

Adapt the rate of administration to the response of the patient; typically the full dose is given over 10 to 20 minutes. (2.3)
DOSAGE FORMS AND STRENGTHS
For injection: approximately 500 units, lyophilized powder in single-dose vial for reconstitution. (3)
CONTRAINDICATIONS
None. (4)
WARNINGS AND DRECALITIONS

- Hypersensitivity reactions, including anaphylaxis, are possible. Should symptoms occur, discontinue THROMBATE III infusion and begin appropriate treatment. (5.1)
- Because THROMBATE III is made from human blood, it may carry a risk of transmitting infectious agents, e.g., viruses, the variant Creutzfeldt-Jakob disease (vCJD) agent and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent. (5.2)
- Perform coagulation tests to avoid excessive or insufficient anticoagulation and monitor for bleeding or

thrombosis. Measure functional plasma AT levels with amidolytic or clotting assays; do not use immunoassays. (5.3)	
ADVERSE REACTIONS	.
he most common adverse reactions (≥ 5% of patients) were dizziness, chest discomfort, nausea, lysgeusia, and pain (cramps). (6)	
o report SUSPECTED ADVERSE REACTIONS, contact Grifols Therapeutics LLC at 1-800-520 2807 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.	0-
DRUG INTERACTIONS	· •
he anticoagulant effect of heparin is enhanced by concurrent treatment with THROMBATE III. To avoid bleeding, reduce the dosage of heparin. (7)	
USE IN SPECIFIC POPULATIONS	
Pregnancy: suspend heparin administration and continue THROMBATE III administration during labor and lelivery. (8.1)	d
See 17 for PATIENT COUNSELING INFORMATION.	
Revised: 7/20)25

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

THROMBATE III is indicated in adult and pediatric patients with hereditary antithrombin deficiency for:

- Treatment and prevention of thromboembolism
- Prevention of peri-operative and peri-partum thromboembolism

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dose

For intravenous use after reconstitution only

- Each vial of THROMBATE III has the functional activity, in International Units (units), stated on the label of the vial. The potency assignment has been determined with a standard calibrated against a World Health Organization antithrombin (AT) reference preparation. When prepared as directed, the approximate final concentration is 50 units per milliliter.
- A guide for dosing THROMBATE III is provided in Table 1.

Table 1: Recommended Dosing Guidelines

			-
Regimen (timing)	Target AT Level	Dose (Units)	Monitor AT Level
Loading Dose*	120% of normal [†]	120 % - baseline % x body weight (kg) 1.4%	 baseline 20 minutes (peak) post-injection 12 hours post-injection pre-injection (trough)
Dose Adjustment* (adjust as needed)	80% to 120% of normal [†]	Target % - trough % x body weight (kg) 1.4%	 20 minutes (peak) post-injection at least every 12 hours post-injection pre-injection (trough)
Maintenance Dose (approximately every 24 hours, adjust as needed)	80% to 120% of normal [†]	Loading Dose x 0.6	approximately every 24 hours, as needed

^{*} The dose calculation is based on an expected incremental *in vivo* recovery of 1.4% per unit per kilogram above baseline or trough levels.

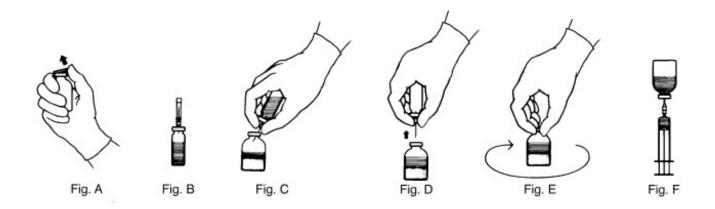
[†] Expressed as % normal level based on functional AT assay.

- Monitor functional plasma levels of AT [see Table 1 and Warnings and Precautions
 (5.3)] and adjust subsequent dosing based on the trough level achieved with the
 preceding dose until predictable peak and trough levels have been achieved, generally
 between 80% to 120% of normal.
- Maintain plasma AT levels between 80% to 120% by administering maintenance doses of 60% of the loading dose, administered every 24 hours. Adjust the maintenance dose and interval between doses based on actual plasma AT levels achieved.
- Individualize the exact loading and maintenance dose and/or dose intervals for each patient based on the individual clinical conditions, response to therapy, and actual plasma AT levels achieved. Recovery of THROMBATE III may vary by patient. For example,
 - The half-life of AT has been reported to be shortened following surgery, hemorrhage or acute thrombosis, and during intravenous heparin (or low molecular weight heparin) administration. In such conditions, monitor plasma AT levels more frequently, and administer THROMBATE III as necessary. [see Warnings and Precautions (5.3), Drug Interactions (7)]
 - When an infusion of THROMBATE III is indicated for a patient with hereditary
 deficiency to control an acute thrombotic episode or prevent thrombosis during
 or following surgical or obstetrical procedures, raise the AT level to normal and
 maintain this level for 2 to 8 days, depending on the indication for treatment, type
 and extent of surgery, patient's medical condition, past history and physician's
 judgment. Base the concomitant administration of heparin in each of these
 situations on the medical judgment of the physician. [see Drug Interactions (7)]

2.2 Reconstitution

- 1. Warm THROMBATE III and Sterile Water for Injection, USP (diluent) vials to room temperature before reconstitution.
- 2. Remove shrink band from the THROMBATE III vial. If the shrink band is absent or shows signs of tampering, do not use the product and notify Grifols Therapeutics LLC immediately.
- 3. Remove the plastic flip top from each vial (Fig. A). Cleanse each vial stopper with an alcohol swab and allow surface to dry.
- 4. Carefully remove the plastic sheath from the short end of the transfer needle. Insert the exposed needle into the diluent vial to the hub (Fig. B).
- 5. Carefully grip the sheath of the other end of the transfer needle and twist to remove it.
- 6. Invert the diluent vial and insert the attached needle into the THROMBATE III vial at a 45° angle (Fig. C). This will direct the stream of diluent against the wall of the vial and minimize foaming. The vacuum will draw the diluent into the THROMBATE III vial.*
- 7. When diluent transfer is complete, remove the diluent vial and transfer needle (Fig. D).
- 8. Immediately after adding the diluent, swirl the THROMBATE III vial continuously until the product is completely dissolved (Fig. E). Some foaming may occur, but attempt to avoid excessive foaming. Visually inspect the vial for particulate matter and discoloration prior to administration.
- 9. Clean the top of the vial of reconstituted THROMBATE III again with a new alcohol swab and let surface dry.
- 10. Attach the filter needle (from the package) to the sterile syringe. Withdraw the

- THROMBATE III solution into the syringe through the filter needle (Fig. F).
- 11. Remove the filter needle from the syringe and replace with an appropriate injection or butterfly needle for administration.
- 12. If the same patient is using more than one vial of THROMBATE III, draw the contents of multiple vials into the same syringe through the filter needles provided.
 - * If vacuum is lost in the THROMBATE III vial during reconstitution, use a sterile syringe to remove the sterile water from the diluent vial and inject it into the THROMBATE III vial, directing the stream of fluid against the wall of the vial.



2.3 Administration

- Visually inspect parenteral drug products for particulate matter and discoloration prior to administration, whenever solution and container permit.
- Administer THROMBATE III, once reconstituted, alone without mixing with other agents or diluents.
- Administer within 3 hours following reconstitution. Do not refrigerate after reconstitution.
- Adapt the rate of administration to the response of the individual patient, but administration of the entire dose in 10 to 20 minutes is generally well tolerated.

3 DOSAGE FORMS AND STRENGTHS

THROMBATE III is a sterile lyophilized powder for reconstitution in single-dose vials. Each vial of THROMBATE III contains the labeled amount of antithrombin in units per vial, typically 500 units. When reconstituted with 10 mL of Sterile Water for Injection, USP, the final concentration is approximately 50 units per mL.

The potency is determined with a standard calibrated in International Units against a World Health Organization (WHO) antithrombin reference preparation.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity Reactions

Hypersensitivity reactions, including anaphylaxis, may occur with THROMBATE III infusion. Early signs of hypersensitivity reactions, which can progress to anaphylaxis, may include angioedema, chest tightness, hypotension, rash, nausea, vomiting, paresthesia, restlessness, wheezing and dyspnea. If hypersensitivity symptoms occur, discontinue use of the product immediately and administer appropriate emergency treatment.

5.2 Transmission of Infectious Agents

Because THROMBATE III is made from human blood, it may carry a risk of transmitting infectious agents, e.g., viruses, the variant Creutzfeldt-Jakob disease (vCJD) agent and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent. There is also the possibility that unknown infectious agents may be present in the product. The risk that the product will transmit viruses has been reduced by screening plasma donors for prior exposure to certain viruses, by testing for the presence of certain current virus infections, and by inactivating and removing certain viruses during manufacture. Despite these measures, this product may still potentially transmit diseases.

Report all infections suspected by a physician possibly to have been transmitted by this product to Grifols Therapeutics LLC at 1-800-520-2807.

5.3 Monitoring: Laboratory Tests

- The effect of drugs that use antithrombin to exert their anticoagulation may be altered when THROMBATE III is added or withdrawn. Regularly perform coagulation tests suitable for the anticoagulant used (e.g., aPTT and anti-Factor Xa activity) to avoid excessive or insufficient anticoagulation. Additionally, monitor the patients for the occurrence of bleeding or thrombosis. [see Drug Interactions (7)]
- Measure functional levels of AT in plasma by amidolytic assays using chromogenic substrates or by clotting assays. Do not use immunoassays because they do not detect all hereditary AT deficiencies.

6 ADVERSE REACTIONS

6.1 Clinical Trials Experience

Because clinical studies are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of one drug cannot be directly compared to rates in other clinical trials of another drug and may not reflect the rates observed in clinical practice.

Two clinical trials were conducted in 33 patients with congenital AT deficiency. The first was a prospective, open-label, dose-escalation, dose-ranging, and pharmacokinetic study in 11 asymptomatic patients. Eight patients received a single dose, escalated sequentially, followed by weekly dose ranging from 25 to 125 unit/kg. Five patients (including 2 from the first part of the study) received weekly THROMBATE III for periods of up to 23 weeks in doses ranging from 125 to 225 unit/kg. The second trial was a phase III, prospective, open-label study conducted in 24 patients for additional kinetics (n=3), the prevention of thrombosis (n=13) during high risk conditions (pregnancy, surgery), or the treatment of thrombosis (n=10). Loading doses targeted an AT plasma

level of 120% and ranged from 33 to 150 unit/kg. Maintenance doses targeted a plasma AT range of 70% to 120%, which were 23 to 75 unit/kg.

Adverse reactions reported during the 2 clinical trials are listed in Table 2. Nine patients (27%) experienced 29 adverse reactions which occurred during 17 of 389 infusions. There were no serious adverse reactions reported. The severity of adverse reactions was reported as mild or moderate, except for wound secretion and hematoma, which was severe.

Table 2: Adverse Reactions Occurring during Hereditary Deficiency Trials

	1	
Adverse Reaction	By Patients N (%) (N=33 Patients)	By Infusions N (%) (N=389 Infusions)
Any adverse reaction	9 (27)	29 (7.5)
Dizziness	4 (12)	8 (2.1)
Chest discomfort	3 (9)	3 (0.8)
Nausea	3 (9)	3 (0.8)
Dysgeusia	2 (6)	3 (0.8)
Pain (cramps)	2 (6)	2 (0.5)
Chills	1 (3)	2 (0.5)
Wound secretion and hematoma	1 (3)	2 (0.5)
Vision blurred	1 (3)	1 (0.3)
Chest pain	1 (3)	1 (0.3)
Dyspnea	1 (3)	1 (0.3)
Intestinal dilatation	1 (3)	1 (0.3)
Pyrexia	1 (3)	1 (0.3)
Urticaria	1 (3)	1 (0.3)

During clinical investigation of THROMBATE III, there were no reports of virus transmission. None of 12 patients monitored for a median of 8 months (range 2–19 months) after receiving THROMBATE III became antibody positive to human immunodeficiency virus (HIV-1). None of 14 patients monitored for \geq 3 months demonstrated any evidence of hepatitis.

7 DRUG INTERACTIONS

The anticoagulant effect of heparin is enhanced by concurrent treatment with THROMBATE III in patients with hereditary AT deficiency. Thus, in order to avoid bleeding, the dosage of heparin (or low molecular weight heparin) may need to be

reduced during treatment with THROMBATE III.

The effect of drugs that use antithrombin to exert their anticoagulation may be altered when THROMBATE III is added or withdrawn. Regularly perform coagulation tests suitable for the anticoagulant used (e.g., aPTT and anti-Factor Xa activity) and at close intervals to avoid excessive or insufficient anticoagulation. Adjust dosage of anticoagulant as necessary. Additionally, monitor the patients for the occurrence of bleeding or thrombosis.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no data with THROMBATE III use in pregnant women to inform a drug-associated risk. However, there are clinical considerations [see Clinical Considerations]. It is not known whether THROMBATE III can cause fetal harm when administered to a pregnant woman or can affect reproduction capacity. THROMBATE III should be given to a pregnant woman only if clearly needed. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

Reproduction studies have been performed in rats and rabbits at doses up to four times the human dose and have revealed no evidence of impaired fertility or harm to the fetus due to THROMBATE III.

Clinical Considerations

Labor or Delivery

Suspend heparin (or low molecular weight heparin) administration and continue THROMBATE III administration during labor and delivery.

8.2 Lactation

Risk Summary

There is no information regarding the presence of THROMBATE III in human milk, the effects on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for THROMBATE III and any potential adverse effects on the breastfed infant from THROMBATE III or from the underlying maternal condition.

8.4 Pediatric Use

The safety and effectiveness of THROMBATE III have been established in pediatric patients. The use of THROMBATE III in pediatric patients with hereditary antithrombin (AT) deficiency was supported by extrapolation of data from two clinical trials in adult patients [see Adverse Reactions (6) and Clinical Studies (14)].

8.5 Geriatric Use

The safety and effectiveness in the geriatric population have not been established.

11 DESCRIPTION

THROMBATE III, antithrombin III (human), is a sterile, non-pyrogenic concentrate of human antithrombin (AT) in lyophilized powder form for reconstitution for intravenous injection. When reconstituted with Sterile Water for Injection, USP, THROMBATE III has a pH of 6.0 to 7.5 and contains 110 mEq/L to 210 mEq/L sodium, 110 mEq/L to 210 mEq/L chloride, 0.075 M to 0.125 M alanine, and not more than 0.1 unit of heparin per 1 unit of AT. THROMBATE III contains no preservative.

THROMBATE III is prepared from pooled units of human plasma from normal donors. The capacity of the THROMBATE III manufacturing process to remove and/or inactivate enveloped and non-enveloped viruses has been validated by laboratory spiking studies on a scaled down process model using a wide range of viruses with diverse physicochemical properties. There are two dedicated virus inactivation/removal steps included in the THROMBATE III manufacturing process: a heat treatment step at $60^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ for not less than 10 hours for virus inactivation and a nanofiltration step for effective removal of viruses as small as 18 nm.

The THROMBATE III manufacturing process was also investigated for its capacity to decrease the infectivity of an experimental agent of transmissible spongiform encephalopathy (TSE), considered as a model for the variant Creutzfeldt-Jakob disease (vCJD) and Creutzfeldt-Jakob disease (CJD) agents. An individual production step in the THROMBATE III manufacturing process has been shown to decrease TSE infectivity of that experimental model agent. The TSE reduction step is the Effluent I to Effluent II + III fractionation step (6.0 \log_{10}). These studies provide reasonable assurance that low levels of vCJD/CJD agent infectivity, if present in the starting material, would be removed.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Antithrombin, an alpha₂-glycoprotein of molecular weight 58,000, is normally present in human plasma at a concentration of approximately 12.5 mg/dL and is the major plasma inhibitor of thrombin. Inactivation of thrombin by AT occurs by formation of a covalent bond resulting in an inactive 1:1 stoichiometric complex between the two, involving an interaction of the active serine of thrombin and an arginine reactive site on AT. AT is also capable of inactivating other components of the coagulation cascade including factors IXa, Xa, XIa, and XIIa, as well as plasmin. The neutralization rate of serine proteases by AT proceeds slowly in the absence of heparin but is greatly accelerated in the presence of heparin. As the therapeutic antithrombotic effect of heparin is mediated by AT, heparin *in vivo* is ineffective in the absence or near absence of AT.

After administration, THROMBATE III temporarily replaces the missing AT in patients with hereditary antithrombin deficiency.

12.3 Pharmacokinetics

In a clinical trial of THROMBATE III conducted in asymptomatic patients with hereditary deficiency of AT, 8 patients were administered a single dose of THROMBATE III at doses ranging from 25 units/kg to 125 units/kg. Pharmacokinetic parameters were determined using immunologic and functional AT assays (Table 3).

Table 3: Pharmacokinetic Analyses of THROMBATE III in Asymptomatic Patients with Congenital AT Deficiency

	Immunological Assay	Functional Assay
AT recovery, % / unit / kg	$1.6 \pm 0.1^*$	1.4 ± 0.1
50% disappearance time, hr	17.4 ± 3.9	22.3 ± 8.6
t _½ , day	2.5 ± 1.5	3.8 ± 1.8

^{*} Mean ± SEM

14 CLINICAL STUDIES

In a prospective, open-label clinical trial, 21 patients were administered THROMBATE III for 16 prophylaxis events (n=13 patients) and 10 for treatment of thrombosis (n=10 patients) with 2 patients receiving THROMBATE III for both prophylaxis and treatment of thrombosis. None of the 13 patients with hereditary AT deficiency and histories of thromboembolism treated prophylactically on 16 separate occasions with THROMBATE III for high thrombotic risk situations (11 surgical procedures, 5 pregnancies and/or deliveries) developed a thrombotic complication. Heparin was administered in 3 of the 11 surgical procedures. Two of the pregnant patients received LMW heparin prophylactically during the first trimester, but which was unable to maintain anticoagulation with increasing dosages. [see Drug Interactions (7)] They experienced a thrombosis, which subsequently resolved with the addition of THROMBATE III, and were therefore administered THROMBATE III and LMW heparin prophylaxis weekly during the second and third trimesters, and during labor and delivery. These two patients did not experience a new thrombosis.

Ten patients with hereditary AT deficiency were treated with THROMBATE III as well as heparin (n=9) for major thrombotic or thromboembolic complications, including 4 patients with thrombosis during the first trimester of pregnancy. Nine patients recovered with no additional thromboses or extension of existing thrombosis. The tenth patient died due to complications from the original pulmonary embolism with infarction which preceded treatment with THROMBATE III.

16 HOW SUPPLIED/STORAGE AND HANDLING

THROMBATE III is supplied in a kit containing one single-dose vial of THROMBATE III lyophilized powder for reconstitution, one vial of Sterile Water for Injection, USP, one sterile double-ended transfer needle, and one sterile filter needle. The total activity of AT in International Units is stated on the label of the THROMBATE III vial.

Components of the packaging do not contain natural rubber latex.

NDC Number <u>Carton (Kit)</u>	<u>Antithrombin</u> <u>Potency</u>	<u>Diluent</u>
13533-603- 20,		
13533-602- 50	500 units	10 mL
or 13533-606- 12		

- Store THROMBATE III at temperatures not to exceed 25°C (77°F).
- Avoid freezing as breakage of the diluent vial might occur.

17 PATIENT COUNSELING INFORMATION

Discuss the following with the patient and/or caregiver.

- Hypersensitivity Reactions: Inform patient and/or caregiver that allergic-type
 hypersensitivity reactions are possible and instruct them to inform their physicians
 about any past or present known hypersensitivity to human plasma proteins prior to
 treatment with THROMBATE III. Inform patients of the early signs of hypersensitivity
 reactions including hives, generalized urticaria, tightness of the chest, wheezing,
 hypotension, and anaphylaxis and to notify their health care provider immediately if
 these events develop. [see Warnings and Precautions (5.1)]
- <u>Transmission of Infectious Disease:</u> Inform patient and/or caregiver that THROMBATE III is made from human plasma and may carry a risk of transmitting infectious agents that can cause disease (e.g., viruses, the variant Creutzfeldt-Jakob disease (vCJD) agent and, theoretically, the Creutzfeldt-Jakob disease (CJD) agent). Inform patients that this risk has been reduced by screening plasma donors for prior exposure to certain infectious agents, by testing the donated plasma for markers of certain current infections, and by inactivating and/or removing pathogens during manufacturing. [see Warnings and Precautions (5.2)]

Manufactured by:

GRIFOLS

Grifols Therapeutics LLC

Research Triangle Park, NC 27709 USA

U.S. License No. 1871

3070188

PACKAGE LABEL

NDC 13533-605-21

10 mL

Antithrombin III (Human)

Thrombate III® Lyophilized Powder

Rx only

For Intravenous Administration Only

Heat-Treated Nanofiltered

The patient and physician should discuss the risks and benefits of this product.

No Preservative

Sterile — Nonpyrogenic

Reconstitute with 10 mL Sterile Water for Injection, USP.

Store at temperatures not to exceed 25°C (77°F). Do not freeze.

Dosage and Administration: Read package insert.

Grifols Therapeutics LLC

Research Triangle Park, NC 27709 USA U.S. License No. 1871

3065424

Lot

Exp.

IU



NDC 13533-602-50

10 mL

Antithrombin III (Human) **Thrombate III**®

Lyophilized Powder

Rx only

For Intravenous Administration Only

GRIFOLS

Heat-Treated Nanofiltered

Contents:

One vial of THROMBATE III 10 mL Sterile Water for Injection, USP One sterile filter needle One sterile double-ended transfer needle

No Preservative Sterile — Nonpyrogenic

GRIFOLS

The patient and physician should discuss the risks and benefits of this product.

This product when reconstituted with 10 mL Sterile Water for Injection, USP, contains 110-210 mEq/L sodium, 110-210 mEq/L chloride, 0.075-0.125 M alanine, and not more than 0.1 IU heparin/IU ATIII.

Administer within 3 hours after reconstitution.

Dosage and Administration: Read enclosed package insert. Store at temperatures not to exceed 25°C (77°F). Do not freeze.

If the shrink band is absent or shows any sign of tampering, do not use the product and notify Grifols Therapeutics LLC immediately.

Not Returnable for Credit or Exchange

GRIFOLS

This product is prepared from large pools of human plasma which may contain infectious agents.

See package insert Warnings.

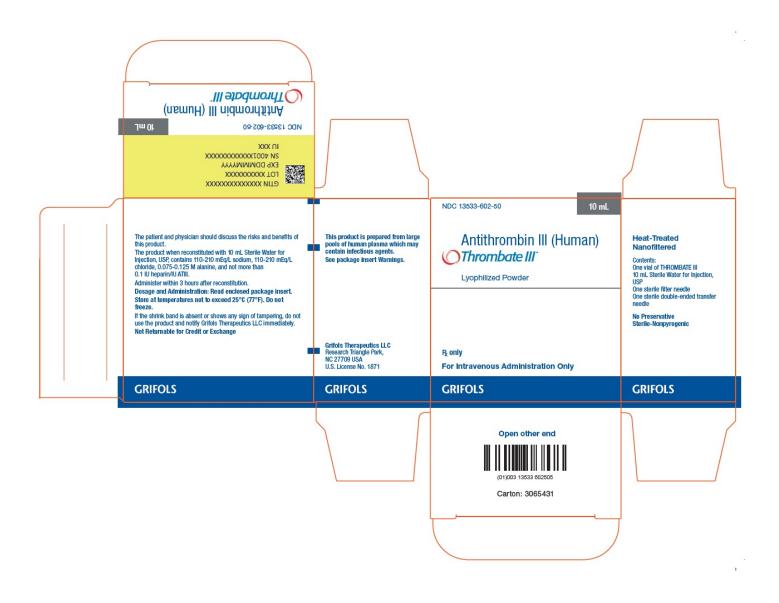
Grifols Therapeutics LLC Research Triangle Park, NC 27709 USA U.S. License No. 1871

GRIFOLS

Open other end

Carton: 3065431

NDC 13533-602-50 10 mL Antithrombin III (Human) Thrombate III®



NDC 13533-200-10

Sterile Water for Injection, USP

10 mL

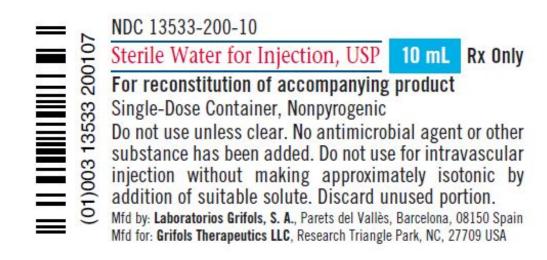
Rx Only

For reconstitution of accompanying product

Single-Dose Container, Nonpyrogenic Do not use unless clear. No antimicrobial agent or other substance has been added. Do not use for intravascular injection without making approximately isotonic by addition of suitable solute. Discard unused portion.

Mfd by: **Laboratorios Grifols, S. A.**, Parets del Vallès, Barcelona, 08150 Spain Mfd for: **Grifols Therapeutics LLC**, Research Triangle Park, NC, 27709 USA

3051810 Lot / Exp.



NDC 76297-002-12

Sterile Water for Injection, USP

10 mL

Rx Only

For reconstitution of accompanying product

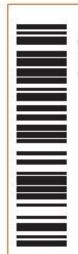
Single-Dose Container, Nonpyrogenic Do not use unless clear. No antimicrobial agent or other substance has been added. Do not use for intravascular injection without making approximately isotonic by addition of suitable solute. Discard unused portion.

Mfd by: **Laboratorios Grifols, S. A.** Parets del Vallès, Barcelona 08150 Spain

3057423

Lot

EXP



NDC 76297-002-12

Sterile Water for Injection, USP

10 mL Rx Only

For reconstitution of accompanying product

Single-Dose Container, Nonpyrogenic

Do not use unless clear. No antimicrobial agent or other substance has been added. Do not use for intravascular injection without making approximately isotonic by addition of suitable solute. Discard unused portion. 3057423

Mfd by: Laboratorios Grifols, S. A. Parets del Vallès, Barcelona 08150 Spain



8

THROMBATE III

antithrombin iii (human) kit

Product Information

Product Type

PLAS MA DERIVATIVE

Item Code (Source)

NDC:13533-603

Packaging

#	ltem Code	Package Description	Marketing Start Date	Marketing End Date
1		1 in 1 CARTON; Type 9: Other Type of Part 3 Combination Product (e.g., Drug/Device/Biological Product)		

Ouantity of Parts

Part #	Package Quantity	Total Product Quantity
	1 VIAL, GLASS	10 mL
Part 2	1 VIAL, GLASS	10 mL

Part 1 of 2

THROMBATE III

antithrombin iii (human) injection, powder, lyophilized, for solution

Product Information

Item Code (Source) NDC:13533-605 **Route of Administration INTRAVENOUS**

Active Ingredient/Active Moiety				
Ingredient Name	Basis of Strength	Strength		
Antithrombin lii Human (UNII: T0LTO7L82X) (Antithrombin lii Human - UNII:T0LTO7L82X)	Antithrombin lii Human	50 [iU] in 1 mL		

Inactive Ingredients			
Ingredient Name	Strength		
Alanine (UNII: OF5P57N2ZX)			
Sodium Chloride (UNII: 451W47IQ8X)			

ı	Packaging			
	# Item Cod	e Package Description	Marketing Start Date	Marketing End Date
	1 NDC:13533- 605-21	10 mL in 1 VIAL, GLASS; Type 0: Not a Combination Product		

Marketing Information				
Marketing Application Number or Monograph Category Citation		Marketing Start Date	Marketing End Date	
BLA	BLA103196	12/30/1991		

Part 2 of 2

STERILE WATER

water injection

Product Information

Item Code (Source)NDC:13533-000Route of AdministrationINTRAVENOUS

Inactive Ingredients

Ingredient Name Strength
Water (UNII: 059QF0KO0R)

	Packaging					
	# Item Code	Package Description	Marketing Start Date	Marketing End Date		
ı	NDC:13533-	10 mL in 1 VIAL, GLASS; Type 0: Not a				

Marketing Information

Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
BLA	BLA103196	12/30/1991	

Marketing Information

riar Reting information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103196	12/30/1991		

THROMBATE III

antithrombin iii (human) kit

Product Information

Product Type PLASMA DERIVATIVE Item Code (Source) NDC:13533-604

Packaging

ı		u ca gg			
	#	Item Code	Package Description	Marketing Start Date	Marketing End Date
			1 in 1 CARTON; Type 9: Other Type of Part 3 Combination Product (e.g., Drug/Device/Biological Product)		

Quantity of Parts

Part #	Package Quantity	Total Product Quantity
Part 1	1 VIAL, GLASS	10 mL
Part 2	1 VIAL, GLASS	10 mL

Part 1 of 2

THROMBATE III

antithrombin iii (human) injection, powder, lyophilized, for solution

Product Information

Item Code (Source)	NDC:13533-605
Route of Administration	INTRAVENOUS

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
Antithrombin Iii Human (UNII: T0LTO7L82X) (Antithrombin Iii Human - UNII:T0LTO7L82X)	Antithrombin lii Human	50 [iU] in 1 mL

Inactive Ingredients		
Ingredient Name	Strength	
Alanine (UNII: OF5P57N2ZX)		
Sodium Chloride (UNII: 451W47IQ8X)		

l	P	Packaging					
	#	Item Code	Package Description	Marketing Start Date	Marketing End Date		
	1	NDC:13533- 605-21	10 mL in 1 VIAL, GLASS; Type 0: Not a Combination Product				

Marketing Information				
Marketing Category	Marketing End Date			
BLA	BLA103196	12/30/1991		

Part 2 of 2

STERILE WATER

water injection

Product Information			
Item Code (Source)	NDC:13533-100		
Route of Administration	INTRAVENOUS		

Inactive Ingredients	
Ingredient Name	Strength
Water (UNII: 059QF0KO0R)	

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:13533- 100-50	10 mL in 1 VIAL, GLASS; Type 0: Not a Combination Product			

Marketing Information

Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
BLA	BLA103196	12/30/1991	

Marketing Information

Marketing	Application Number or Monograph	Marketing Start	Marketing End
Category	Citation	Date	Date
BLA	BLA103196	12/30/1991	06/22/2017

THROMBATE III

antithrombin iii (human) kit

Product Information

Product Type PLASMA DERIVATIVE Item Code (Source) NDC:13533-602

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
	NDC:13533- 602-50	1 in 1 CARTON; Type 9: Other Type of Part 3 Combination Product (e.g., Drug/Device/Biological Product)		

Ouantity of Parts

	J	
Part #	Package Quantity	Total Product Quantity
Part 1	1 VIAL, GLASS	10 mL
Part 2	1 VIAL, GLASS	10 mL

Part 1 of 2

THROMBATE III

antithrombin iii (human) injection, powder, lyophilized, for solution

Product Information

Item Code (Source)	NDC:13533-605
Route of Administration	INTRAVENOUS

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Antithrombin lii Human (UNII: T0LTO7L82X) (Antithrombin lii Human - UNII:T0LTO7L82X)	Antithrombin lii Human	50 [iU] in 1 mL

Inactive Ingredients			
Ingredient Name	Strength		
Alanine (UNII: OF5P57N2ZX)			
Sodium Chloride (UNII: 451W47IQ8X)			

ı	Packaging			
	# Item Code	Package Description	Marketing Start Date	Marketing End Date
	1 NDC:13533- 605-21	10 mL in 1 VIAL, GLASS; Type 0: Not a Combination Product		

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103196	12/30/1991		

Part 2 of 2

STERILE WATER

water injection

Product Information

 Item Code (Source)
 NDC:13533-200

 Route of Administration
 INTRAVENOUS

Inactive Ingredients Ingredient Name Strength Water (UNII: 059QF0KO0R)

# Item Code Package Description Marketing Start Date	Marketing End
	Marketing End Date
1 NDC:13533- 200-10 10 mL in 1 VIAL, GLASS; Type 0: Not a Combination Product	

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103196	12/30/1991		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
BLA	BLA103196	12/30/1991	

THROMBATE III

antithrombin iii (human) kit

Product Information

Product Type PLASMA DERIVATIVE Item Code (Source) NDC:13533-606

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1		1 in 1 CARTON; Type 9: Other Type of Part 3 Combination Product (e.g., Drug/Device/Biological Product)		

Quantity of Parts			
Part #	Package Quantity	Total Product Quantity	
Part 1	1 VIAL, GLASS	10 mL	
Part 2	1 VIAL, GLASS	10 mL	

Part 1 of 2

THROMBATE III

antithrombin iii (human) injection, powder, lyophilized, for solution

Product Information

 Item Code (Source)
 NDC:13533-605

 Route of Administration
 INTRAVENOUS

Active Ingredient/Active Moiety

Basis of Change

ingredient Name	Strength	Strength
Antithrombin lii Human (UNII: T0LTO7L82X) (Antithrombin lii Human - UNII:T0LTO7L82X)	Antithrombin lii Human	50 [iU] in 1 mL

Inactive Ingredients	
Ingredient Name	Strength
Alanine (UNII: OF5P57N2ZX)	
Sodium Chloride (UNII: 451W47IQ8X)	

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:13533- 605-21	10 mL in 1 VIAL, GLASS; Type 0: Not a Combination Product			

Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
BLA	BLA103196	12/30/1991		

Part 2 of 2

STERILE WATER

water solution

Product Information		
Item Code (Source)	NDC:76297-002	
Route of Administration	INTRAVENOUS	

Active Ingredient/Active Moiety			
Ingredient Name	Basis of Strength	Strength	
Water (UNII: 059QF0KO0R) (Water - UNII:059QF0KO0R)	Water	1 mL in 1 mL	

Packaging									
#	Item Code	Package Description	Marketing Start Date	Marketing End Date					
1	NDC:76297- 002-12	10 mL in 1 VIAL, GLASS; Type 0: Not a Combination Product							

Marketing Information									
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date						
unapproved drug other		12/30/1991							
Marketing Information									
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date						

12/30/1991

Labeler - GRIFOLS USA, LLC (048987452)

BLA103196

BLA

Establishment									
Name	Address	ID/FEI	Business Operations						
GRIFOLS THERAPEUTICS LLC		611019113	manufacture(13533-606, 13533-603, 13533-604, 13533-605, 13533-602)						

Establishment									
Name	Address	ID/FEI	Business Operations						
LABORATORIOS GRIFOLS SA		463719725	manufacture(76297-002)						

Revised: 8/2025 GRIFOLS USA, LLC