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HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use GLUCAGON FOR INJECTION safely and effectively. See full prescribing information for GLUCAGON FOR INJECTION.							
GLUCAGON for injection, for intravenous or intramuscular use Initial U.S. Approval: 1998							
Glucagon for Injection is a gastrointestinal motility inhibitor indicated for use as a diagnostic aid during radiologic examinations to temporarily inhibit movement of the gastrointestinal (GI) tract (1)							
Limitations of Use:							
Glucagon for Injection is not indicated for the emergency treatment of hypoglycemia (1)							
DOSAGE AND ADMINISTRATION							
Reconstitute lyophilized powder with Sterile Water for Injection before use (2.2, 2.3)							
• Determine dose based on diagnostic procedure, route of administration and procedure duration (2.1):							
• To inhibit stomach and small bowel motility the dose is 0.2 mg to 0.5 mg given intravenously or 1							
<ul> <li>mg given intramuscularly</li> <li>To inhibit colon motility the dose is 0.5 mg to 0.75 mg given intravenously or 1 mg to 2 mg given</li> </ul>							
intramuscularly							
DOSAGE FORMS AND STRENGTHS							
For Injection: 1 mg lyophilized powder in single dose vial for reconstitution (3)							
CONTRAINDICATIONS							
<ul> <li>Pheochromocytoma (4, 5.1)</li> <li>Insulinoma (4, 5.2)</li> </ul>							
<ul> <li>Glucagonoma (4, 5.2)</li> </ul>							
WARNINGS AND PRECAUTIONS							
<ul> <li><u>Hyperglycemia in patients with diabetes</u>: Monitor blood glucose and treat with insulin if indicated (5.3)</li> <li><u>Increased blood pressure and heart rate in patients with cardiac disease</u>: Monitor patients with known cardiac disease (5.4)</li> </ul>							
<ul> <li><u>Allergic reactions including anaphylactic shock with breathing difficulties, and hypotension, generalized</u></li> </ul>							
rash: Discontinue and treat as indicated (5.5)							
ADVERSE REACTIONS							
ADVERSE REACTIONS							
Adverse reactions seen with glucagon are transient changes in blood pressure, increase in heart rate, hypersensitivity reactions, nausea and vomiting, and hypoglycemia (6)							
To report SUSPECTED ADVERSE REACTIONS, contact Fresenius Kabi USA, LLC at 1-800-551- 7176 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.							
DRUG INTERACTIONS							
Beta-blockers: May cause a greater increase in both heart rate and blood pressure (7)							
<ul> <li>Insulin: Reacts antagonistically towards glucagon; monitor glucose (7)</li> </ul>							

- <u>Indomethacin</u>: May produce hypoglycemia; monitor glucose (7)
- <u>Anticholinergic Drugs</u>: Concomitant use not recommended due to increased gastrointestinal adverse reactions (7)

• <u>Warfarin</u>: May increase anticoagulant effect of warfarin; may require an adjustment in warfarin dosage (7)

#### See 17 for PATIENT COUNSELING INFORMATION.

**Revised: 2/2022** 

#### **FULL PRESCRIBING INFORMATION: CONTENTS\***

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#### **2 DOSAGE AND ADMINISTRATION**

- 2.1 Recommended Dose
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- 16.1 How Supplied
- 16.2 Recommended Storage

#### **17 PATIENT COUNSELING INFORMATION**

\* Sections or subsections omitted from the full prescribing information are not listed.

#### FULL PRESCRIBING INFORMATION

**1 INDICATIONS AND USAGE** 

Glucagon for Injection is indicated for use as a diagnostic aid during radiologic examinations to temporarily inhibit movement of the gastrointestinal tract.

Limitations of Use:

Glucagon for Injection is not indicated for the emergency treatment of hypoglycemia because it is not packaged with a syringe and diluent necessary for rapid preparation and administration during an emergency outside of a healthcare facility.

## **2 DOSAGE AND ADMINISTRATION**

#### 2.1 Recommended Dose

Determine the dose based on the type of diagnostic procedure, the route of administration and expected procedure duration [see Clinical Pharmacology (12.2)].

The usual dose to inhibit movement of the:

- Stomach and small bowel is 0.2 mg to 0.5 mg given intravenously or 1 mg given intramuscularly.
- Colon is 0.5 mg to 0.75 mg given intravenously or 1 mg to 2 mg given intramuscularly.

Bolus doses above 1 mg administered intravenously have caused nausea and vomiting and are not recommended [see Adverse Reactions (6)].

## 2.2 Reconstitution of the Lyophilized Powder

Glucagon for Injection is a lyophilized powder, which requires reconstitution with Sterile Water for Injection prior to intravenous or intramuscular use.

- Using a syringe, withdraw 1 mL of Sterile Water for Injection and inject into the vial containing Glucagon for Injection lyophilized powder.
- Shake the vial gently until the powder is completely dissolved and no particles remain in the reconstituted solution.
- Visually inspect the reconstituted solution for particulate matter and discoloration prior to administration. The reconstituted solution should be clear and of water-like consistency. Discard the reconstituted solution if there are signs of gel formation or particles.
- The reconstituted solution has a concentration of approximately 1 mg of glucagon per mL.
- Use the reconstituted glucagon immediately after reconstitution.

#### 2.3 Important Administration Instructions

- Glucagon for Injection must be administered by medical personnel.
- The timing of administration of Glucagon for Injection depends upon the organ under examination and route of administration [see Clinical Pharmacology (12.2)].

- If given intravenously, administer Glucagon for Injection as a bolus over a time period of 1 minute.
- Discard any unused portion.
- After the end of the diagnostic procedure, give oral carbohydrates to patients who have been fasting, if this is compatible with the diagnostic procedure.

#### **3 DOSAGE FORMS AND STRENGTHS**

For injection: 1 mg of lyophilized powder in single dose vial for reconstitution.

## **4 CONTRAINDICATIONS**

Glucagon for Injection is contraindicated in patients with:

- Pheochromocytoma [see Warnings and Precautions (5.1)] because of the risk of increased blood pressure
- Insulinoma [see Warnings and Precautions (5.2)] because of the risk of hypoglycemia
- Glucagonoma [see Warnings and Precautions (5.2)] because of the risk of hypoglycemia

## **5 WARNINGS AND PRECAUTIONS**

#### 5.1 Hypertension in Patients with Pheochromocytoma

Glucagon for Injection is contraindicated in patients with pheochromocytoma because glucagon may stimulate the release of catecholamines from the tumor, which may result in a sudden and marked increase in blood pressure.

#### 5.2 Hypoglycemia in Patients with Insulinoma or Glucagonoma

Glucagon for Injection is contraindicated in patients with insulinoma or glucagonoma as it may cause secondary hypoglycemia. Test patients suspected of having glucagonoma for blood levels of glucagon prior to treatment, and monitor for changes in blood glucose levels during treatment. If a patient develops symptoms of hypoglycemia after a dose of Glucagon for Injection, administer glucose orally or intravenously.

## 5.3 Hyperglycemia in Patients with Diabetes Mellitus

Treatment with Glucagon for Injection in patients with diabetes mellitus may cause hyperglycemia. Monitor diabetic patients for changes in blood glucose levels during treatment. If patients develop symptoms of hyperglycemia after a dose of Glucagon for Injection, administer insulin.

## 5.4 Blood Pressure and Heart Rate Increase in Patients with Cardiac Disease

Glucagon for Injection may increase myocardial oxygen demand, blood pressure, and pulse rate which may be life-threatening in patients with cardiac disease. Cardiac monitoring is recommended in patients with cardiac disease during glucagon treatment, and an increase in blood pressure and pulse rate may require therapy.

#### 5.5 Hypersensitivity and Allergic Reactions

Generalized allergic reactions and hypersensitivity, including generalized rash, and anaphylactic shock with breathing difficulties, and hypotension, have been reported with glucagon treatment or lactose. Discontinue Glucagon for Injection and administer standard treatment for anaphylaxis if needed.

#### 6 ADVERSE REACTIONS

The following serious adverse reactions are described below and elsewhere in the labeling:

- Hypertension in patients with Pheochromocytoma [see Contraindications (4) and Warnings and Precautions (5.1)]
- Hypoglycemia in Patients with Insulinoma and Glucagonoma [see Contraindications (4) and Warnings and Precautions (5.2)]
- Hyperglycemia in Patients with Diabetes Mellitus [see Warnings and Precautions (5.3)]
- Hypersensitivity and Allergic Reactions; generalized allergic reactions including generalized rash, and in some cases anaphylactic shock with breathing difficulties, and hypotension [see Warnings and Precautions (5.5)]

#### Adverse Reactions from Clinical Trials

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

In an open-label clinical study of Glucagon for Injection, 29 healthy volunteers received a single dose of 1 mg Glucagon for Injection intramuscularly. Table 1 shows the most common adverse reactions that were not present at baseline and occurred in at least 5% of patients.

# Table 1: Adverse Reactions in Healthy Volunteers Who Received Glucagon forInjection, 1 mg Administered Intramuscularly

	(N=29) % of Patients
Vomiting	17
Nausea	7

Adverse Reactions from the Literature and Other Clinical Studies

The following adverse reactions have been identified from the literature and clinical studies with the use of glucagon. Therefore, it is not possible to reliably estimate their frequency.

- Nausea and vomiting occurred with doses above 1 mg administered by rapid intravenous injection (within 1 to 2 seconds). Doses above 1 mg are not recommended for intravenous use [see Dosage and Administration (2.1)].\_
- Hypotension was reported up to 2 hours after administration in patients receiving glucagon as premedication for upper GI endoscopy procedures.
- A temporary increase in both blood pressure and pulse rate occurred following the administration of glucagon. Patients taking beta-blockers experienced a temporary increase in both pulse and blood pressure that was greater than normal [see Drug Interactions (7)].
- Other adverse reactions included hypoglycemia and hypoglycemic coma, as described in postmarketing reports. Patients taking indomethacin may be more likely to experience hypoglycemia following glucagon administration [see Drug Interactions (7)].

## **7 DRUG INTERACTIONS**

Table 2 includes clinically significant drug interactions with Glucagon for Injection.

#### Table 2: Clinically Significant Drug Interactions with Glucagon for Injection

Beta-Blockers					
-	The concomitant use of beta-blockers and Glucagon for Injection may increase the risk of a temporary increase in heart rate and blood pressure.				
<i>Intervention:</i> The increase in blood pressure and heart rate may require therapy in patients with coronary artery disease.					
Insulin					
Clinical Impact:	Insulin reacts antagonistically towards glucagon.				
Intervention:	Monitor blood glucose when Glucagon for Injection is used as a diagnostic aid in diabetes patients.				
Indomethacin					
	The concomitant use of indomethacin and Glucagon for Injection may lead to hypoglycemia.				
Intervention:	Monitor blood glucose levels during glucagon treatment of patients taking indomethacin.				
Anticholinergic I					
Clinical Impact:	The concomitant use of anticholinergic drugs and Glucagon for Injection increase the risk of gastrointestinal adverse reactions due to additive effects on inhibition of gastrointestinal motility.				
Intervention:	Concomitant use is not recommended.				
Warfarin					
Clinical Impact:	Glucagon may increase the anticoagulant effect of warfarin.				
Intervention:	Monitor patients for unusual bruising or bleeding, as adjustments in warfarin dosage may be required.				

#### **8 USE IN SPECIFIC POPULATIONS**

#### 8.1 Pregnancy

#### Pregnancy Category B.

Reproduction studies were performed in rats and rabbits with another glucagon product at doses of 0.4, 2, and 10 mg per kg. These doses represent exposures of up to 100 and 200 times the human dose based on mg/m<sup>2</sup> for rats and rabbits, respectively, and revealed no evidence of harm to the fetus. There are, however, no adequate and wellcontrolled studies in pregnant women. Glucagon does not cross the human placental barrier.

#### 8.3 Nursing Mothers

It is not known whether glucagon is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when glucagon is administered to a nursing woman. No clinical studies have been performed in nursing mothers, however, glucagon is a peptide and intact glucagon is not absorbed from the GI tract. Therefore, even if the infant ingested glucagon it would be unlikely to have any effect on the infant. Additionally, glucagon has a short plasma half-life thus limiting amounts available to the child.

#### 8.4 Pediatric Use

Safety and effectiveness of Glucagon for Injection have not been established in pediatric patients for use as a diagnostic aid during radiologic examinations to temporarily inhibit movement of the gastrointestinal tract.

#### **10 OVERDOSAGE**

If overdosage occurs, the patient may experience nausea, vomiting, inhibition of GI tract motility, increase in blood pressure and heart rate, and decrease in serum potassium. In case of suspected overdosage, monitor and correct hypokalemia. If the patient develops a severe increase in blood pressure, phentolamine mesylate may be effective in lowering blood pressure for the short time that control would be needed.

#### **11 DESCRIPTION**

Glucagon for Injection, for intravenous or intramuscular use, is a gastrointestinal motility inhibitor that is produced by solid phase peptide synthesis. Glucagon is a single-chain polypeptide containing 29 amino acid residues. The chemical structure of the glucagon polypeptide is identical to human glucagon and to glucagon extracted from beef and pork pancreas. The structure of glucagon is: His-Ser-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-1 2 3 4 5 6 7 8 9 10 11

Lys-Tyr-Leu-Asp-Ser-Arg-Arg-Ala-Gln-Asp-Phe-12 13 14 15 16 17 18 19 20 21 22

Val-Gln-Trp-Leu-Met-Asn-Thr 23 24 25 26 27 28 29

#### C<sub>153</sub>H<sub>225</sub>N<sub>43</sub>O<sub>49</sub>S

#### Molecular Weight = 3483

Glucagon for Injection is a sterile, lyophilized white powder in a 3 mL vial. The reconstituted solution contains 1 mg of glucagon as hydrochloride per mL and lactose monohydrate (107 mg). Glucagon for Injection is supplied at pH 2.5 to 3.5 and is soluble in water.

#### **12 CLINICAL PHARMACOLOGY**

#### 12.1 Mechanism of Action

Extra hepatic effects of glucagon include relaxation of the smooth muscle of the stomach, small bowel, and colon.

#### **12.2 Pharmacodynamics**

Table 3 displays the pharmacodynamics properties of Glucagon for Injection as a diagnostic aid during radiologic examination.

# Table 3: Pharmacodynamic Properties of Glucagon for Injection as a Diagnostic Aid

Route of Administration	Dose <sup>a</sup>	Time of Onset of Action for GI Smooth Muscle Relaxation	Duration of Smooth Muscle Relaxation		
Intravenous	0.25 to 0.5 mg	45 seconds	9 to 17 minutes		
Intramuscular	1 mg	8 to 10 minutes	12 to 27 minutes		
inci arnusculai	2 mg	4 to 7 minutes	21 to 32 minutes		

<sup>a</sup> Select from these doses based on type of diagnostic procedure, route of administration and procedure duration.

#### 12.3 Pharmacokinetics

<u>Absorption</u>

Following intramuscular administration of 1 mg dose, the maximum plasma glucagon concentrations of 3391 pg/mL were attained approximately 10 minutes after dosing.

#### <u>Metabolis m</u>

The mean apparent half-life of glucagon was 26 minutes after intramuscular administration.

Glucagon is degraded in the liver, kidney, and plasma.

#### **13 NONCLINICAL TOXICOLOGY**

#### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

#### <u>Carcinogenesis</u>

Long term studies in animals to evaluate carcinogenic potential have not been performed.

#### <u>Mutagenesis</u>

Synthetic glucagon was negative in the bacterial reverse mutation assay (Ames test). The clastogenic potential of synthetic glucagon in the Chinese Hamster Ovary (CHO) assay was positive in the absence of metabolic activation. Doses of 100 and 200 mg/kg of glucagon of both pancreatic and recombinant origins gave slightly higher incidences of micronucleus formation in male mice but there was no effect in females. The weight of evidence indicates that synthetic and recombinant glucagon are not different and do not pose a genotoxic risk to humans.

#### Impairment of Fertility

Glucagon was not tested in animal fertility studies. Studies in rats have shown that pancreatic glucagon does not cause impaired fertility.

#### **16 HOW SUPPLIED/STORAGE AND HANDLING**

#### 16.1 How Supplied

Glucagon for Injection is supplied as a sterile, lyophilized white powder in a vial.

Presentation/	Unit of Sale	Strength	Description/Unit of
Product Code	NDC		Use NDC
10 Single dose vials NP509613	63323-596-16	1 mg per vial	1 mL single dose vial of Glucagon for Injection (NDC 63323-596-08)

Diagnostic Kit 63323-594-03 NP509603	3 1 mg per vial	1 mL single dose vial of Glucagon for Injection (NDC 63323-596-06) with 1 mL single dose vial of Sterile Water for Injection, USP for reconstitution (NDC 63323-185-03)
-----------------------------------------	-----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

The container closure is not made with natural rubber latex.

## 16.2 Recommended Storage

#### Before Reconstitution

The package containing Glucagon for Injection vials may be stored up to 24 months at 20° to 25° C (68° to 77° F) [see USP Controlled Room Temperature] prior to reconstitution. Do not freeze. Keep in the original package to protect from light.

#### After Reconstitution

The Glucagon for Injection must be reconstituted with Sterile Water for Injection prior to use. Use reconstituted glucagon solution immediately. Discard any unused portion [see Dosage and Administration (2.3)].

## **17 PATIENT COUNSELING INFORMATION**

- Inform patients that generalized allergic reactions have been reported with glucagon treatment including generalized rash, and in some cases anaphylactic shock with breathing difficulties, and hypotension. Advise patients to monitor and report any signs or symptoms of a hypersensitivity reaction [see *Warnings and Precautions* (5.5)].
- Inform patients that hypoglycemia has occurred with treatment with glucagon. Inform patients of the symptoms of hypoglycemia and how to treat it. Advise patients to avoid driving or operating machinery until ingesting a meal. Advise patients to inform their health care provider if hypoglycemia occurs so that treatment may be given if necessary [see Adverse Reactions (6)].
- Inform patients with diabetes mellitus that treatment with Glucagon for Injection may increase their risk of hyperglycemia [see Warnings and Precautions (5.3)].
- Inform patients with cardiac disease that treatment with Glucagon for Injection may increase their risk of a transient increase in blood pressure and heart rate [see Warnings and Precautions (5.4)].

Novaplus is a registered trademark of Vizient, Inc.

Manufactured by: Fresenius Kabi Lake Zurich, IL 60047

www.fresenius-kabi.com/us

## 451462B novaplus<sup>-|-</sup>

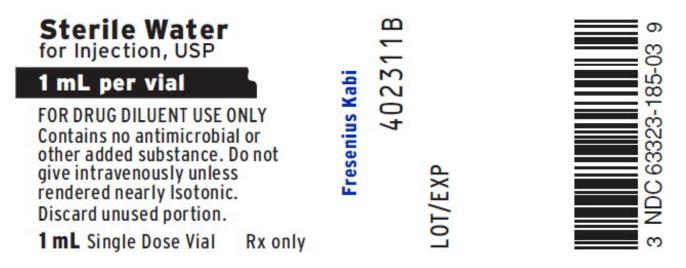
PACKAGE LABEL - PRINCIPAL DISPLAY - Glucagon Kit 1 mg Vial Label NP509603 Glucagon

for Injection (Synthetic) **1 mg per vial** For intramuscular or intravenous injection. For diagnostic use only. Reconstitute with Sterile Water for Injection, USP Rx only



PACKAGE LABEL - PRINCIPAL DISPLAY - Glucagon Kit Sterile Water 1 mL Vial Label Sterile Water for Injection, USP 1 mL per vial FOR DRUG DILUENT USE ONLY Contains no antimicrobial or other added substance. Do not give intravenously unless rendered nearly Isotonic. Discard unused portion. **1 mL** Single Dose Vial

Rx only



PACKAGE LABEL - PRINCIPAL DISPLAY - Glucagon Kit 1 mg Vial Carton Panel 63323-594-03 NP509603 Glucagon for Injection (Synthetic) For intramuscular or intravenous injection only. 1 mg per vial

FOR DIAGNOSTIC USE ONLY. Reconstitute with Sterile Water for Injection, USP immediately before use.

#### Each kit contains:

- One single dose vial with 1 mg of Glucagon for Injection
- One single dose vial with 1 mL of Sterile Water for Injection, USP

Single Dose Vials Rx only





#### 621483B

#### PACKAGE LABEL - PRINCIPAL DISPLAY - Glucagon 1 mg Vial Label NP509613 Glucagon for Injection

for Injection (Synthetic) **1 mg per vial** For intramuscular or intravenous injection. For diagnostic use only. Reconstitute with Sterile Water for Injection, USP Rx only

# Glucagon NP509613 for Injection (Synthetic)

# 1 mg per vial

For intramuscular or intravenous injection. For diagnostic use only. Reconstitute with Sterile Water for Injection, USP Rx only novaplus:

Glucagon as Hydrochloride 1 mg



 PACKAGE LABEL - PRINCIPAL DISPLAY - Glucagon 1 mg Vial Tray Label

 NDC 63323-596-16

 Glucagon

 for Injection

 (Synthetic)

 For intramuscular or intravenous injection only.

 1 mg per vial

 For diagnostic use only.

 10 Single Dose Vials

NDC 63323-596-16

# Glucagon for Injection (Synthetic)



10 Single Dose Vials Rx only

# novaplus<sup>-|-</sup>

#### TO BE SOLD ONLY AS AN UNBROKEN PACKAGE

Glucagon as Hydrochloride 1 mg, Lactose 107 mg. Hydrochloric acid and/or sodium hydroxide (to adjust pH).

#### Keep out of reach of children.

**STORE AT: 20°** to **25°**C (**68°** to **77°**F) [see USP Controlled Room Temperature]. Do Not Freeze, protect from light. Glucagon for Injection should be reconstituted with 1 mL Sterile Water for Injection, USP immediately before use. Do not store for later use. Read the enclosed insert before use.

The container closure is not made with natural rubber latex.

Mfd. by: Fresenius Kabi Lake Zurich, IL 60047

NP509613

www.fresenius-kabi.com/us



01)2036332359616

## GLUCAGON

glucagon injection, powder, lyophilized, for solution

Produ	uct Info	rmation						
Product Type HUMAN PRESCRIPTION DRUG					ltem Co	de (Source)	NDC	2:63323-596
Route	of Admir	nistration	INTRAVENOUS, INTRAMUSC	ULAR				
Active	e Ingred	lient/Active	Moiety					
		Ingr	edient Name			Basis of Streng		Strength
GLUCAGON HYDROCHLORIDE (UNII: 1H87NVF4DB) (GLUCAGON - UNII:76LA80IG2G) GLUCAGON								1 mg in 1 mL
Inacti	ve Ingr	edients						
			Ingredient Name				St	rength
LACTOS	SE MONOI	HYDRATE (UNII:	-					
HYDRO	CHLORIC	ACID (UNII: QTT)	7582CB)					
SODIUM	1 HYDROX	(UNII: 55X04	QC32I)					
Docks	aina							
Packa					Marke	eting Start	Mark	eting End
# Iter	n Code	Pa	ackage Description			Date	Mark	Date
1 NDC: 596-1	63323- L6	10 in 1 TRAY			05/08/20	015		
1 NDC: 596-0	63323- )8	1 mL in 1 VIAL, 9 Combination Pro	SINGLE-DOSE; Type 0: Not a oduct	1				
Mark	ceting	Informat	ion					
	rketing tegory	Applicat	tion Number or Monog Citation	raph		ting Start Date	Mark	eting End Date
NDA		NDA201849			05/08/201	5		
		-						
	CAGON							
glucago	on kit							
Produ	uct Info	rmation						
Produ	ct Type	HUMAN PRE	ESCRIPTION DRUG	Item C	ode (Sou	irce)	NDC:63	323-594

Ρ	ackaging			
#	ltem Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63323-594- 03	1 in 1 CARTON; Type 1: Convenience Kit of Co- Package	12/01/2015	

Quantity of F	Parts						
Part # Package Quantity				Total	Product Qua	antity	
Part 1 1 VIAL, SI	INGLE-DOSE		1 mL				
Part 2 1 VIAL, SI	INGLE-DOSE		1 mL				
Part 1 of 2	2						
GLUCAGO	N						
		lyophilized, for solu	tion				
<u> </u>							
Product Info	rmation						
ltem Code (Sou	urce)	NDC:63323-596					
Route of Admir	nistration	INTRAVENOUS, INTRA	MUSCULAR				
Active Ingred	lient/Active	Moiety					
-		redient Name			Basis o Streng		Strength
GLUCAGON HYDF UNII:76LA80IG2G)	ROCHLORIDE (L	INII: 1H87NVF4DB) (GLU	JCAGON -		GLUCAGON		1 mg in 1 mL
Inactive Ingr	edients						
Ingredient Name Strength							
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)							
HYDROCHLORIC							
SODIUM HYDROX	<b>(IDE</b> (UNII: 55X0	4QC32I)					
Packaging							
# Item Code	Р	ackage Descriptio	on	Mark	eting Start Date	Mark	eting End Date
<b>1</b> NDC:63323- 596-06	1 mL in 1 VIAL, Combination Pr	SINGLE-DOSE; Type 0: oduct	Not a				
Marketing	Informat	ion					
Marketing Category	Applica	tion Number or Mo Citation	onograph		ting Start Date		eting End Date
NDA	NDA201849			05/08/201	.5		
Part 2 of 2	2						

	TERILE W ter injection	ATER					
Pr	oduct Info	rmation					
lte	m Code (Sou	ırce)	NDC:63323-185				
Ro	ute of Admin	nistration	INTRAVENOUS, INTRAMUSCULAR				
Ac	tive Ingred	lient/Active	Moiety				
		Ingredie	nt Name		<b>Basis of Strength</b>		Strength
WA	<b>TER</b> (UNII: 059	QF0KO0R) (WATE	R - UNII:059QF0KO0R)	W	ATER	-	1 mL in 1 mL
_							
Pa	ckaging						
#	Item Code Packag		ackage Description		Marketing Start Date	Ma	arketing End Date
	NDC:63323- L85-03	1 mL in 1 VIAL, Combination Pro	SINGLE-DOSE; Type 0: Not a oduct				
Ma	arketing	Informat	ion				
	Marketing Category	Applica	tion Number or Monograph Citation		Marketing Start Date	Ma	arketing End Date
ANC	DA	ANDA08840	0	1:	1/23/2015		
Ma	arketing	Informat	ion				
	Marketing	Applica	tion Number or Monograph Citation		Marketing Start Date	Ma	arketing End Date
	Category						

Labeler - Fresenius Kabi USA, LLC (608775388)

Establishment					
Name	Address	ID/FEI	Business Operations		
Fresenius Kabi USA, LLC		023648251	ANALYSIS(63323-594, 63323-596) , MANUFACTURE(63323-594, 63323- 596)		

Revised: 4/2022

Fresenius Kabi USA, LLC