

**FOLIC ACID - folic acid injection, solution**  
**Fresenius Kabi USA, LLC**

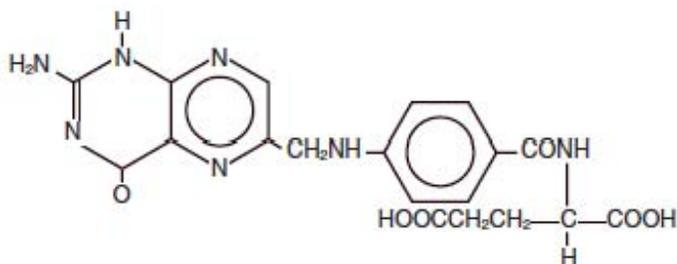
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**Folic Acid Injection, USP**

Rx only

**DESCRIPTION:**

Folic Acid Injection, USP is a sterile, nonpyrogenic solution of sodium folate (prepared by the addition of sodium hydroxide to folic acid) in Water for Injection intended for intramuscular (IM), intravenous (IV) or subcutaneous (SC) use.

Folic Acid is a complex organic compound present in liver, yeast and other substances, which may be prepared synthetically. It is a yellow or yellowish orange, odorless crystalline powder. It is very slightly soluble in water, insoluble in alcohol, chloroform, ether; readily dissolves in dilute solutions of alkali hydroxides and carbonates. It is chemically designated as: L-Glutamic acid, *N*-[4-[(2-amino-1,4-dihydro-4-oxo-6-pteridiny) methyl] amino]benzoyl]-, and has the following structural formula.



**C<sub>19</sub>H<sub>19</sub>N<sub>7</sub>O<sub>6</sub>**

**M.W. 441.40**

Each mL contains: Sodium folate (equivalent to 5 mg folic acid); edetate disodium 2 mg; benzyl alcohol 15 mg (added as preservative); Water for Injection q.s. Hydrochloric acid and/or sodium hydroxide for pH adjustment (8.0 to 11.0).

**CLINICAL PHARMACOLOGY:**

In man, an exogenous source of folate is required for nucleoprotein synthesis and maintenance of normal erythropoiesis. Folic acid, whether given by mouth or parenterally, stimulates specifically the production of red blood cells, white blood cells and platelets in persons suffering from certain megaloblastic anemias.

**INDICATIONS AND USAGE:**

Folic Acid Injection, USP alone is effective in the treatment of megaloblastic anemias due to a deficiency of folic acid as may be seen in tropical or nontropical sprue, in anemias of nutritional origin, pregnancy, infancy or childhood.

## **WARNINGS:**

**WARNING:** This product contains aluminum that may be toxic. Aluminum may reach toxic levels with prolonged parenteral administration if kidney function is impaired. Premature neonates are particularly at risk because their kidneys are immature, and they require large amounts of calcium and phosphate solutions, which contain aluminum.

Research indicates that patients with impaired kidney function, including premature neonates, who receive parenteral levels of aluminum at greater than 4 to 5 mcg/kg/day accumulate aluminum at levels associated with central nervous system and bone toxicity. Tissue loading may occur at even lower rates of administration.

Folic acid alone is improper therapy in the treatment of pernicious anemia and other megaloblastic anemias where Vitamin B<sub>12</sub> is deficient.

**This product contains benzyl alcohol. Benzyl alcohol has been reported to be associated with a fatal “Gasping Syndrome” in premature infants.**

## **PRECAUTIONS:**

Folic acid in doses above 0.1 mg daily may obscure pernicious anemia in that hematologic remission can occur while neurological manifestations remain progressive.

## **ADVERSE REACTIONS:**

Allergic sensitization has been reported following both oral and parenteral administration of folic acid.

## **DOSAGE AND ADMINISTRATION:**

*Parenteral Administration:* IM, IV and SC routes may be used if the disease is exceptionally severe or if gastrointestinal absorption may be, or is known to be, impaired.

*Usual Therapeutic Dosage— In adults and children (regardless of age):* up to 1 mg daily. Resistant cases may require larger doses.

*Maintenance Level:* When clinical symptoms have subsided and the blood picture has become normal, a maintenance level should be used, i.e., 0.1 mg for infants and up to 0.3 mg for children under four years of age, 0.4 mg for adults and children four or more years of age and 0.8 mg for pregnant and lactating women, per day, but never less than 0.1 mg per day. Patient should be kept under close supervision and adjustment of the maintenance level made if relapse appears imminent.

In the presence of alcoholism, hemolytic anemia, anticonvulsant therapy or chronic infection, the maintenance level may need to be increased.

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

## **HOW SUPPLIED:**

Folic Acid Injection, USP 50 mg per 10 mL (5 mg per mL) is available as:

Product No.	NDC No.	
18410	63323-184-10	50 mg per 10 mL (5 mg per mL), 10 mL Multiple Dose, in a flip-top vial packaged individually.
18411	63323-184-11	50 mg per 10 mL (5 mg per mL), 10 mL Multiple Dose, in a flip-top vial, 10 vials per tray.

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

**PROTECT FROM LIGHT.**

Retain vial in carton until contents are used.



www.fresenius-kabi.us

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Revised: November 2016

**PACKAGE LABEL - PRINCIPAL DISPLAY - Folic Acid 10 mL Vial Label**

**Folic Acid Injection, USP**

**50 mg per 10 mL (5 mg/mL)**

For intramuscular, intravenous or subcutaneous use.

**10 mL** Multiple Dose Vial

Rx only

**Folic Acid**  
Injection, USP

**50 mg per 10 mL**  
(5 mg per mL)

For intramuscular,  
intravenous or  
subcutaneous use.

**10 mL**  
Multiple Dose Vial

Rx only

Sterile, Nonpyrogenic  
Each mL contains: Sodium folate  
(equivalent to 5 mg folic acid); edetate  
disodium 2 mg; benzyl alcohol 15 mg  
(added as preservative); Water for  
injection q.s. Hydrochloric acid and/or  
sodium hydroxide for pH adjustment.  
Contains no more than 3500 mcg/L  
of aluminum.

Usual Dosage: See Insert.  
Store at 20° to 25°C (68° to 77°F)  
[see USP Controlled Room Temperature].  
**PROTECT FROM LIGHT.**  
Retain vial in carton until contents  
are used.

**Fresenius Kabi**  
Lake Zurich, IL 60047

**401864G**

LOT/EXP

3 NDC 63323-184-10 0

**PACKAGE LABEL - PRINCIPAL DISPLAY - Folic Acid 10 mL Vial Carton Label**

**Folic Acid Injection, USP**

**50 mg per 10 mL** (5 mg per mL)

For intramuscular, intravenous or subcutaneous use.

**10 mL** Multiple Dose Vial

Rx only

**Folic Acid**  
Injection, USP

**50 mg per 10 mL**  
(5 mg per mL)

For intramuscular,  
intravenous or  
subcutaneous use.

**10 mL**  
Multiple Dose Vial  
Rx only



**FOLIC ACID**

folic acid injection, solution

**Product Information**

<b>Product Type</b>	HUMAN PRESCRIPTION DRUG	<b>Item Code (Source)</b>	NDC:63323-184
<b>Route of Administration</b>	INTRAMUSCULAR, INTRAVENOUS, SUBCUTANEOUS		

**Active Ingredient/Active Moiety**

<b>Ingredient Name</b>	<b>Basis of Strength</b>	<b>Strength</b>
<b>FOLIC ACID</b> (UNII: 935E97BOY8) (FOLIC ACID - UNII:935E97BOY8)	FOLIC ACID	5 mg in 1 mL

**Inactive Ingredients**

<b>Ingredient Name</b>	<b>Strength</b>
<b>EDETATE SODIUM</b> (UNII: MP1J8420LU)	2 mg in 1 mL

<b>BENZYL ALCOHOL</b> (UNII: LKG8494WBH)	15 mg in 1 mL
<b>HYDROCHLORIC ACID</b> (UNII: QTT17582CB)	
<b>SODIUM HYDROXIDE</b> (UNII: 55X04QC32I)	

### Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63323-184-10	1 in 1 CARTON	09/05/2000	
1		10 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		

### Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA089202	09/05/2000	

**Labeler** - Fresenius Kabi USA, LLC (608775388)

### Establishment

Name	Address	ID/FEI	Business Operations
Fresenius Kabi USA, LLC		023648251	manufacture(63323-184)

Revised: 10/2024

Fresenius Kabi USA, LLC