

# Folinic acid (calcium salt pentahydrate)

Catalog No: tcsc1777



## Available Sizes

**Size:** 100mg

**Size:** 200mg

**Size:** 500mg



## Specifications

**CAS No:**

6035-45-6

**Formula:**

$C_{20}H_{33}CaN_7O_{12}+$

**Pathway:**

Cell Cycle/DNA Damage

**Target:**

Antifolate

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O : 18.04 mg/mL (29.99 mM; Need ultrasonic)

**Alternative Names:**

Leucovorin calcium salt pentahydrate

**Observed Molecular Weight:**

603.59

## Product Description

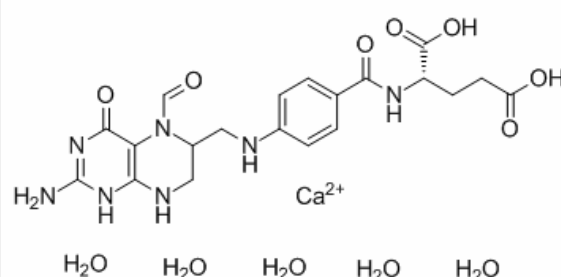
Folinic Acid is a reduced folic acid, which is used in combination with other chemotherapy drugs.

Target: Folate analog

Approved: 2008

Folinic acid (calcium salt pentahydrate) is the calcium salt form of folinic acid, which is one of the forms of folate found naturally in foods. Folate deficiency is believed to be the most common vitamin deficiency in the world due to food processing, food selection, and intestinal disorders. Folinic acid in the body can be converted into any of the other active forms of folate.

Treatment with folinic acid calcium salt pentahydrate (CF) could cause improved development in the heart and vessels in MTX-treated embryos, which proved that MTX induced the malformations by inhibiting DHFR. The transcript levels of genes such as *hand2*, *mef2a*, *mef2c*, and *flk-1* were reduced in MTX-treated embryos. Compared with the MTX-treated group, the transcript levels of *hand2*, *mef2a*, *mef2c*, and *flk-1* were increased in the MTX + *dhfr-gfp* mRNA-injected group and in the MTX + CF group [1]. Folinic acid may also be useful in the treatment of acute methotrexate overdose. Different dosing protocols are used, but folinic acid should be re-dosed until the methotrexate level is less than  $5 \times 10^{-8}$  M [2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!