Levoleucovorin Calcium

Cat. No.: HY-13667

CAS No.: 80433-71-2

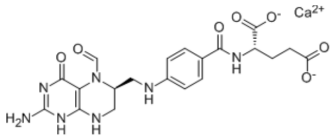
Molecular Formula: $C_{20}H_{21}CaN_7O_7$

Molecular Weight: 511.5

Target: Antifolate

Pathway: Cell Cycle/DNA Damage

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 10 mg/mL (19.55 mM; Need ultrasonic)
DMSO : < 1 mg/mL (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9550 mL	9.7752 mL	19.5503 mL
	5 mM	0.3910 mL	1.9550 mL	3.9101 mL
	10 mM	0.1955 mL	0.9775 mL	1.9550 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Levoleucovorin Calcium (Calcium levofolinate), a levo isoform of Leucovorin Calcium (HY-13664), possesses antineoplastic effects. Levoleucovorin Calcium is also an augmentor of 5-fluorouracil (HY-90006) cytotoxicity against cancer[1][2].

In Vivo

Levoleucovorin Calcium (6, 20 or 60 mg/kg/day; i.v.; for 4 weeks) enhances the toxicity of 5-Fluorouracil[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Crj:CD(SD)BR rats (5 weeks)[2]
Dosage:	6, 20 or 60 mg/kg/day
Administration:	i.v.; for 4 weeks (combined with 10 mg/kg/day 5-Fluorouracil)
Result:	Decreased the RBC counts, increased extramedullary hematopoiesis and enhanced the suppression of lymphatic organs. Induced the potentiation in the toxicity of 5-Fluorouracil appeared to be mainly immuno-

	suppression and myelosuppression, which were related to the anti-tumor activity of 5-Fluorouracil.

CUSTOMER VALIDATION

- J Mol Med (Berl). 2019 Aug;97(8):1183-1193.

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REFERENCES

[1]. National Center for Biotechnology Information. PubChem Compound Summary for CID 135500522, Levoleucovorin calcium.

[2]. Murakami Y, et al. Effects of levofolinate calcium on subacute intravenous toxicity of 5-fluorouracil in rats. J Toxicol Sci. 1998 May;23 Suppl 1:11-29.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA