

Levomefolic Acid

Chemical Properties

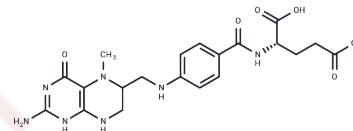
CAS No. : 31690-09-2

Formula: C₂₀H₂₅N₇O₆

Molecular Weight: 459.46

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Levomefolic Acid (5-MTHF) is a natural, active form of folic acid used at the cellular level for DNA reproduction, the cysteine cycle and the regulation of homocysteine among other functions. Levomefolinic acid is used as a treatment and to prevent Folate Deficiency
Targets(IC50)	Reactive Oxygen Species,Endogenous Metabolite,DNA/RNA Synthesis,ROS

Solubility Information

Solubility	DMSO: 20 mg/mL (43.53 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1765 mL	10.8823 mL	21.7647 mL
5 mM	0.4353 mL	2.1765 mL	4.3529 mL
10 mM	0.2176 mL	1.0882 mL	2.1765 mL
50 mM	0.0435 mL	0.2176 mL	0.4353 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Thermal oxidation studies on reduced folate, L-5-methyltetrahydrofolic acid (L-5-MTHF) and strategies for stabilization using food matrices.

Scaglione F , Panzavolta G . Folate, folic acid and 5-methyltetrahydrofolate are not the same thing[J]. Xenobiotica, 2014, 44(5):480-488.

Rezk B M , Haenen G R M M , Vijgh W J F V D , et al. Tetrahydrofolate and 5-methyltetrahydrofolate are folates with high antioxidant activity. Identification of the antioxidant pharmacophore[J]. FEBS Letters, 2003, 555(3):0-605.

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