Data Sheet (Cat.No.T26261)

TargetMol

Tetrahydrohomofolic acid

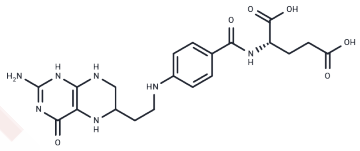
Chemical Properties

CAS No. : 5786-82-3

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	Tetrahydrohomofolic acid is a thymidylate synthetase inhibitor, antibacterial, and antimalarial agent.
Targets(IC50)	Others

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

Slieker LJ, Benkovic SJ. Inhibition of HKSV28 cell growth by 5,11-methenyl-tetrahydrohomofolate. Mol Pharmacol. 1984 Mar;25(2):294-302. PubMed PMID: 6700575.

Wasserman GF, Benkovic PA, Young M, Benkovic SJ. Kinetic relationships between the various activities of the formyl-methenyl-methylenetetrahydrofolate synthetase. Biochemistry. 1983 Mar 1;22(5):1005-13. PubMed PMID: 6601493.

Fong KL, Ho DH, Benjamin RS, Yang F, Sickler J, Brown NS, Bodey GP. A radioimmunoassay for 5-methyltetrahydrohomofolate. J Pharmacol Exp Ther. 1981 Aug;218(2):344-7. PubMed PMID: 6265623.

Mishra LC, Mead JA. On the biochemical mechanism of action of tetrahydrohomofolic acid. Biochem Pharmacol. 1972 Feb 15;21(4):579-81. PubMed PMID: 5014514.

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