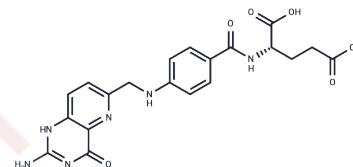


8-Deazafolic acid

Chemical Properties

CAS No. :	51989-25-4
Formula:	C ₂₀ H ₂₀ N ₆ O ₆
Molecular Weight:	440.41
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	8-Deazafolic acid is a potent folate-dependent bacteria inhibitor, Streptococcus faecium (ATCC 8043) and Lactobacillus casei (ATCC 7469), and to have activity against lymphoid leukemia L1210 in mice.
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2706 mL	11.3531 mL	22.7061 mL
5 mM	0.4541 mL	2.2706 mL	4.5412 mL
10 mM	0.2271 mL	1.1353 mL	2.2706 mL
50 mM	0.0454 mL	0.2271 mL	0.4541 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

- Temple C Jr, Kussner CL, Rose JD, Smithers DL, Bennett LL Jr, Montgomery JA. New synthesis of N-[4-[(2-amino-4(3H)-oxopyrido[3,2-d]pyrimidin-6-yl)methyl]amino]benzoyl]-L-glutamic acid (8-deazafolic acid) and the preparation of some 5,6,7,8-tetrahydro derivatives. J Med Chem. 1981 Oct;24(10):1254-8. PubMed PMID: 6948961.
- Oatis JE Jr, Hynes JB. Synthesis of quinazoline analogues of folic acid modified at position 10. J Med Chem. 1977 Nov;20(11):1393-6. PubMed PMID: 915899.
- Hynes JB, Eason DE, Garrett CM, Colvin PL Jr. Quinazolines as inhibitors of dihydrofolate reductase. 4. Classical analogues of folic and isofolic acids. J Med Chem. 1977 Apr;20(4):588-91. PubMed PMID: 850245.
- DeGraw JJ, Kisliuk RL, Gaumont Y, Baugh CM. Antimicrobial activity of 8-deazafolic acid. J Med Chem. 1974 Apr;17(4):470-1. PubMed PMID: 4208536.

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