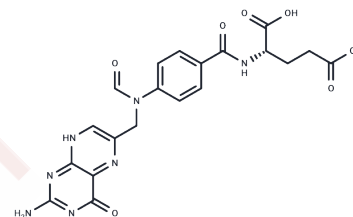


10-Formylfolic acid

Chemical Properties

CAS No. :	134-05-4
Formula:	C ₂₀ H ₁₉ N ₇ O ₇
Molecular Weight:	469.41
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	10-Formylfolic acid is a novel and potent inhibitor of dihydrofolate reductase, which can be used in leukemia research.
Targets(IC50)	Antifolate,DHFR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1303 mL	10.6517 mL	21.3033 mL
5 mM	0.4261 mL	2.1303 mL	4.2607 mL
10 mM	0.213 mL	1.0652 mL	2.1303 mL
50 mM	0.0426 mL	0.213 mL	0.4261 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

- J E Baggott, et al. 10-Formyl-dihydrofolic acid is bioactive in human leukemia cells. *J Nutr.* 1999 Jul;129(7):1315-8.
- M D'Urso-Scott, et al. Formation of 10-Formylfolic Acid, a Potent Inhibitor of Dihydrofolate Reductase, in Rat Liver Slices Incubated with Folic Acid. *Proc Natl Acad Sci U S A.* 1974 Jul;71(7):2736-9.
- Kopp M, Dürr K, Steigleder M, Clavel T, Rychlik M. Development of stable isotope dilution assays for the quantitation of intra- and extracellular folate patterns of *Bifidobacterium adolescentis*. *J Chromatogr A.* 2016 Oct 21;1469:48-59. doi: 10.1016/j.chroma.2016.09.048. Epub 2016 Sep 22. PubMed PMID: 27692648.
- Kopp M, Morisset R, Koehler P, Rychlik M. Stable Isotope Dilution Assays for Clinical Analyses of Folates and Other One-Carbon Metabolites: Application to Folate-Deficiency Studies. *PLoS One.* 2016 Jun 8;11(6):e0156610. doi: 10.1371/journal.pone.0156610. eCollection 2016. PubMed PMID: 27276031; PubMed Central PMCID: PMC4898732.

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