

ICI 198583

Chemical Properties

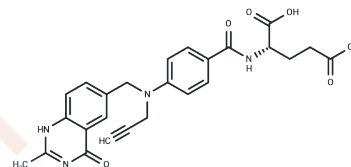
CAS No. : 112887-62-4

Formula: C₂₅H₂₄N₄O₆

Molecular Weight: 476.48

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	ICI 198583 is an inhibitor of antifolate thymidylate synthase.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0987 mL	10.4936 mL	20.9872 mL
5 mM	0.4197 mL	2.0987 mL	4.1974 mL
10 mM	0.2099 mL	1.0494 mL	2.0987 mL
50 mM	0.042 mL	0.2099 mL	0.4197 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

- Chen JH, Zhang N, Wang YQ, Wang JZ, Ji SX, Dang WJ, Li SM, Feng L. Estrogenic effects of flavonoid components in Xiaoyao powder. *Genet Mol Res.* 2016 Feb 11;15(1). doi: 10.4238/gmr.15017500. PubMed PMID: 26909969.
- Pawełczak K, Makowski M, Kempny M, Dzik JM, Gołos B, Rode W, Rzeszotarska B. Sulfamide antifolates inhibiting thymidylate synthase: synthesis, enzyme inhibition and cytotoxicity. *Acta Biochim Pol.* 2002;49(2):407-20. PubMed PMID: 12362982.
- Kusakiewicz-Dawid A, Bugaj M, Dzik JM, Gołos B, Wińska P, Pawełczak K, Rzeszotarska B, Rode W. Synthesis and biological activity of N(alpha)-[4-[N-[(3,4-dihydro-2-methyl-4-oxo-6-quinazolinyl)methyl]-N-propargylamino]phenylacetyl]-L-glutamic acid. *Acta Biochim Pol.* 2002;49(1):197-203. PubMed PMID: 12136941.
- Skelton LA, Ormerod MG, Titley JC, Jackman AL. Cell cycle effects of CB30865, a lipophilic quinazoline-based analogue of the antifolate thymidylate synthase inhibitor ICI 198583 with an undefined mechanism of action. *Cytometry.* 1998 Sep 1;33(1):56-66. PubMed PMID: 9725559.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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