

Brequinar sodium

Chemical Properties

CAS No. :	96201-88-6
Formula:	C ₂₃ H ₁₄ F ₂ NNaO ₂
Molecular Weight:	397.349
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	Bipenquinatate is a potent and selective inhibitor of dihydroorotate dehydrogenase (DHODH) with IC ₅₀ of 20 nM, blocking de novo pyrimidine biosynthesis.
Targets(IC ₅₀)	Dehydrogenase

Solubility Information

Solubility	DMSO: 3.98 mg/mL (10.02 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5167 mL	12.5834 mL	25.1667 mL
5 mM	0.5033 mL	2.5167 mL	5.0333 mL
10 mM	0.2517 mL	1.2583 mL	2.5167 mL
50 mM	0.0503 mL	0.2517 mL	0.5033 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

Li S F , Gong M J , Sun Y F , et al. Antiviral activity of brequinar against foot-and-mouth disease virus infection in vitro and in vivo[J]. Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie, 2019, 116:108982.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481