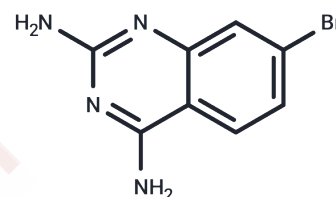


DHFR-IN-3

Chemical Properties

CAS No. :	137553-43-6
Formula:	C ₈ H ₇ BrN ₄
Molecular Weight:	239.07
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	DHFR-IN-3 (7-bromoquinazoline-2,4-diamine) is a dihydrofolate reductase (DHFR) inhibitor.
Targets(IC50)	Antifolate,Parasite,DHFR

Solubility Information

Solubility	DMSO: 55 mg/mL (230.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.37 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1829 mL	20.9144 mL	41.8288 mL
5 mM	0.8366 mL	4.1829 mL	8.3658 mL
10 mM	0.4183 mL	2.0914 mL	4.1829 mL
50 mM	0.0837 mL	0.4183 mL	0.8366 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

Rosowsky, A., Hynes, J., & Queener, S. (1995). Structure-activity and structure-selectivity studies on diaminoquinazolines and other inhibitors of *Pneumocystis carinii* and *Toxoplasma gondii* dihydrofolate reductase. *Antimicrobial Agents And Chemotherapy*, 39(1), 79-86. doi: 10.1128/aac.39.1.79

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