DHFR-IN-3

Cat. No.: HY-W003561

CAS No.: 137553-43-6

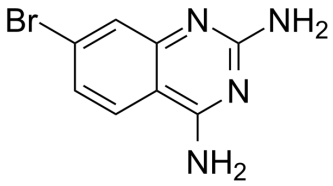
Molecular Formula: $C_8H_7BrN_4$

Molecular Weight: 239.07

Target: Antifolate; Parasite

Pathway: Cell Cycle/DNA Damage; Anti-infection

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (418.29 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (10.46 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (10.46 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (10.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DHFR-IN-3 is a dihydrofolate reductase (DHFR) inhibitor with the IC_{50} values of 19 μM and 12 μM in rat liver and P. carinii DHFR, respectively[1].

REFERENCES

[1]. A Rosowsky, et al. Structure-activity and structure-selectivity studies on diaminoquinazolines and other inhibitors of Pneumocystis carinii and Toxoplasma gondii dihydrofolate reductase. Antimicrob Agents Chemother. 1995 Jan;39(1):79-86.

Caution: Product has not been fully validated for medical applications. For research use only.

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