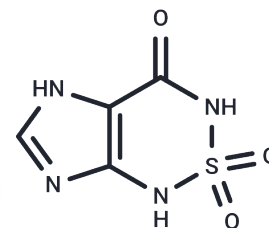


ATIC-IN-2

Chemical Properties

CAS No. :	67095-44-7
Formula:	C ₄ H ₄ N ₄ O ₃ S
Molecular Weight:	188.17
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	ATIC-IN-2 (Compound 1) is a competitive inhibitor of the bifunctional enzyme AICAR transformylase/IMP cyclohydrolase (ATIC) that binds to the inosine monophosphate cyclohydrolase (IMPCH) domain with a K_i value of 0.13 μ M, ATIC-IN-2 is commonly employed in purine biosynthesis research to dissect nucleotide metabolism, enzyme regulation, and metabolic vulnerabilities in cancer cells.
Targets(IC50)	Others,DNA/RNA Synthesis
In vitro	In biochemical assays, ATIC-IN-2 functioned as a competitive inhibitor and transition state analogue targeting the IMPCH domain of the bifunctional enzyme ATIC with a K_i value of 0.13 μ M [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (212.57 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	5.3143 mL	26.5717 mL	53.1434 mL
5 mM	1.0629 mL	5.3143 mL	10.6287 mL
10 mM	0.5314 mL	2.6572 mL	5.3143 mL
50 mM	0.1063 mL	0.5314 mL	1.0629 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

Xu L, et al. , Structure-based design, synthesis, evaluation, and crystal structures of transition state analogue inhibitors of inosine monophosphate cyclohydrolase. J Biol Chem. 2007 Apr 27;282(17):13033-46.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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