

ATIC-IN-1

Chemical Properties

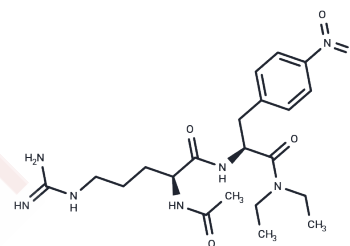
CAS No. : 1402453-15-9

Formula: C₂₁H₃₃N₇O₅

Molecular Weight: 463.53

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	ATIC-IN-1 (compound 14) is an inhibitor targeting the dimerization of Aminoimidazole carboxamide ribonucleotide transformylase/inosine monophosphate cyclohydrolase (ATIC), with a K _i of 685 nM. This dimerization is crucial for the enzyme's AICAR transformylase function. Additionally, ATIC-IN-1 exhibits anti-tumor properties by reducing cell proliferation and cell division rates [1].
Targets(IC50)	Others
In vitro	ATIC-IN-1 (10 μM, 50 μM) is a specific inhibitor that exhibits a nonspecific aggregation mechanism, both in the presence and absence of BSA at concentrations of 1 mg/mL and 10 mg/mL [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1574 mL	10.7868 mL	21.5736 mL
5 mM	0.4315 mL	2.1574 mL	4.3147 mL
10 mM	0.2157 mL	1.0787 mL	2.1574 mL
50 mM	0.0431 mL	0.2157 mL	0.4315 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

Spurr IB, et al. Targeting tumour proliferation with a small-molecule inhibitor of AICAR transformylase homodimerization. *ChemBiochem*. 2012 Jul 23;13(11):1628-34.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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