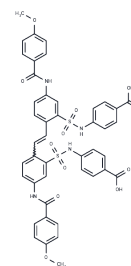


MtbHU-IN-1

Chemical Properties

CAS No. :	59736-84-4
Formula:	C44H36N4O12S2
Molecular Weight:	876.91
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	MtbHU-IN-1 is a Mycobacterium tuberculosis nucleoid-associated protein HU (MtbHU) inhibitor (binding to WT MtbHU with a Kd of 98 nM).
Targets(IC50)	Others, Antibacterial
In vitro	MtbHU-IN-1 (SD4) is an inhibitor of Mycobacterium tuberculosis nucleoid-associated protein HU (MtbHU), exhibiting Kds of 98 nM, 760 nM, 980 nM, 340 nM, and 730 nM for WT and mutant MtbHUs, respectively. It specifically inhibits HU-DNA binding, disrupts nucleoid architecture, and reduces Mtb growth. The stilbene inhibitors induce gene expression changes in Mtb akin to those caused by HU deficiency, indicating that HU is a potential target for the development of therapies against tuberculosis [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1404 mL	5.7018 mL	11.4037 mL
5 mM	0.2281 mL	1.1404 mL	2.2807 mL
10 mM	0.114 mL	0.5702 mL	1.1404 mL
50 mM	0.0228 mL	0.114 mL	0.2281 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

Bhowmick T, et al. Targeting Mycobacterium tuberculosis nucleoid-associated protein HU with structure-based inhibitors. Nat Commun. 2014 Jun 11;5:4124.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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