

SPEN inhibitor 1

Chemical Properties

CAS No. :

Formula: C₂₇H₂₀N₄O

Molecular Weight: 416.47

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	SPEN-IN-1 (compound X1) is a selective inhibitor of the SPEN protein factor, with a dissociation constant (K _d) of 47 nM. It specifically targets RepA, a 431-nucleotide domain within Xist (a non-coding RNA prototype), characterized by 8.5 repeats of a GC-rich motif instrumental in gene silencing [1].
Targets(IC50)	Others
In vitro	SPEN-IN-1 (0-100 μM) inhibits RepA-PRC2 and RepA-SPEN with IC ₅₀ values of 30 μM and 48 μM, respectively, and inhibits RepA, PRC2, and SPEN with K _d values of 400 nM, 47 nM, and 420 nM, respectively [1]. SPEN-IN-1 selectively disrupts the interaction between Xist and homologous proteins both in vitro and in cells and markedly suppresses the accumulation of H3K27me3 and PRC2 [1].
In vivo	SPEN-IN-1 reduces the in vivo interaction of RepA-SPEN [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4011 mL	12.0057 mL	24.0113 mL
5 mM	0.4802 mL	2.4011 mL	4.8023 mL
10 mM	0.2401 mL	1.2006 mL	2.4011 mL
50 mM	0.048 mL	0.2401 mL	0.4802 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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