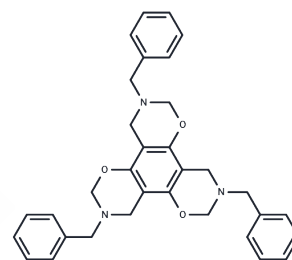


SGF29-IN-1

Chemical Properties

CAS No. :	6638-82-0
Formula:	C ₃₃ H ₃₃ N ₃ O ₃
Molecular Weight:	519.63
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	SGF29-IN-1 (Compound Cpd_DC60) serves as a selective inhibitor targeting the Tudor domain of the Spt-Ada-Gcn5 acetyltransferase (SAGA)-associated factor 29 (SGF29). It has demonstrated effectiveness in treating leukemia [1].
Targets(IC50)	Others
In vitro	SGF29-IN-1 (20 µM) inhibits the Tudor domain of SGF29, disrupting SGF29-dependent acetylation of H3K9 in leukemia cell lines MOLM13 and MV4-11 [1]. Western Blot Analysis [1] Cell Lines: MOLM13 and MV4-11, Concentration: 20 µM, Incubation Time: 48 hours, Result: Inhibited acetylation of H3K9 and reduced levels of RPL8 and RPS2.
In vivo	SGF29-IN-1, administered at 5 mg/kg via intraperitoneal injection every other day for 35 days, effectively inhibits leukemia progression in a mouse model (MLL-AF9 xenograft CD45 mice) with no significant toxicity to CD45 mice [1]. This treatment leads to a reduced percentage of 45.2 cells in the peripheral blood and spleen and improves the survival rate of the rats.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9244 mL	9.6222 mL	19.2445 mL
5 mM	0.3849 mL	1.9244 mL	3.8489 mL
10 mM	0.1924 mL	0.9622 mL	1.9244 mL
50 mM	0.0385 mL	0.1924 mL	0.3849 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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