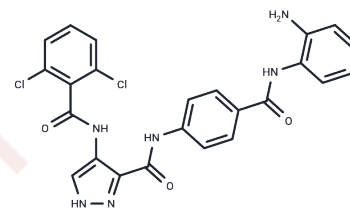


## CDK/HDAC-IN-3

### Chemical Properties

CAS No. :	2944087-54-9
Formula:	C <sub>24</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>6</sub> O <sub>3</sub>
Molecular Weight:	509.34
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	CDK/HDAC-IN-3 is an orally active dual inhibitor of HDACs and CDKs, offering potent and selective inhibition of CDK9, CDK12, CDK13, HDAC1, HDAC2, and HDAC3, with IC <sub>50</sub> values of 98.32 nM, 98.85 nM, 100 nM, 62.12 nM, 93.28 nM, and 82.87 nM, respectively, and is applicable in the treatment of acute myeloid leukemia (AML) [1].
Targets(IC <sub>50</sub> )	HDAC,CDK
In vitro	CDK/HDAC-IN-3 (compound 33a) at 1 μM demonstrates potent and selective inhibition of CDK9, CDK12, CDK13, HDAC1, HDAC2, and HDAC3 with IC <sub>50</sub> values of 98.32 nM, 98.85 nM, 100 nM, 62.12 nM, 93.28 nM, and 82.87 nM, respectively [1]. At 0.5 μM and 1.0 μM, this compound significantly induces the differentiation of leukemia stem cell-like cells and inhibits AML proliferation [1]. Additionally, at 0.5 μM, 1.0 μM, and 2.0 μM, CDK/HDAC-IN-3 markedly promotes the differentiation of LSCs [1]. The compound also exhibits inhibitory effects on U937, HL-60, SKNO-1, and Kasumi-1 cells with IC <sub>50</sub> values of 0.72 μM, 1.43 μM, 1.63 μM, and 0.89 μM, respectively [1].
In vivo	CDK/HDAC-IN-3 (compound 33a) demonstrates good oral bioavailability when administered intravenously (i.v.) at 5 mg/kg and orally (p.o.) at 25 mg/kg [1].

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9633 mL	9.8166 mL	19.6333 mL
5 mM	0.3927 mL	1.9633 mL	3.9267 mL
10 mM	0.1963 mL	0.9817 mL	1.9633 mL
50 mM	0.0393 mL	0.1963 mL	0.3927 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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