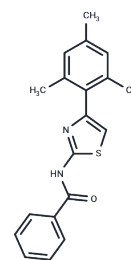


## INH6

## Chemical Properties

CAS No. :	1001753-24-7
Formula:	C <sub>19</sub> H <sub>18</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight:	322.42
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	INH6, an effective Hec1 inhibitor, selectively disrupts the Hec1/Nek2 interaction and induces chromosome mis-alignment.
Targets(IC50)	Apoptosis,MAPK,Microtubule Associated
In vitro	INH6 effectively targets the Hec1/Nek2 complex for degradation, and shows potent cell killing activity with IC50 of 1.7, 2.1, 2.4, and 2.5 $\mu$ M in MDA-MB231, MDA-MB468, HeLa and K562 cell lines. INH6 also triggers mitotic abnormalities in HeLa cells, and induces apoptosis. [1]
Cell Research	Standard XTT assays with a four-day drug treatment procedure are performed to measure the dose-dependent cytotoxicity of INH analogs in cultured cells. Triplicate sets are measured and compiled for final data presentation. The assay is performed by using a commercial kit following the instructions. In principle, cells are plated on 96-well dishes one day before the drug treatment, followed by drug treatment on day 2 and XTT assay on day 5 after drug addition. The absorption at 595 nm is measured with a plate reader and converted to cell survival percentages in comparison to mock treated groups.(Only for Reference)

## Solubility Information

Solubility	Ethanol: 9 mg/mL (27.91 mM),Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 60 mg/mL (186.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (7.75 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.1015 mL	15.5077 mL	31.0154 mL
5 mM	0.6203 mL	3.1015 mL	6.2031 mL
10 mM	0.3102 mL	1.5508 mL	3.1015 mL
50 mM	0.062 mL	0.3102 mL	0.6203 mL

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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

Qiu XL, et al. J Med Chem. 2009, 52(6), 1757-1767.

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