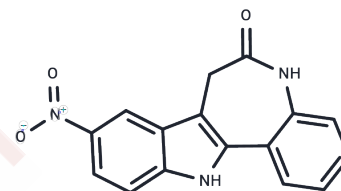


## ALSTERPAULLONE

## Chemical Properties

CAS No. :	237430-03-4
Formula:	C <sub>16</sub> H <sub>11</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	293.28
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	Alsterpaullone is a Cyclin-Dependent Kinase Inhibitor, Mediated Toxicity in HeLa Cells Through Apoptosis-Inducing Effect
Targets(IC50)	Apoptosis, CDK, GSK-3
In vitro	Alsterpaullone inhibited HeLa cells in a time-dependent (0-72 h) and dose-dependent (0-30 μM) manner. In the presence of alsterpaullone, HeLa cells were arrested in G2/M prior to undergoing apoptosis via a mechanism that is involved in the regulation of various antiapoptotic genes, DNA-repair, transcription, and cell cycle progression. Compared to controls, alsterpaullone effectively prevented HeLa cells from entering S-phase. These potential therapeutic efficacies could be correlated with the activation of caspase-3[1].

## Solubility Information

Solubility	DMSO: 12 mg/mL (40.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4097 mL	17.0486 mL	34.0971 mL
5 mM	0.6819 mL	3.4097 mL	6.8194 mL
10 mM	0.341 mL	1.7049 mL	3.4097 mL
50 mM	0.0682 mL	0.341 mL	0.6819 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

Cui C , Wang Y , Wang Y , et al. Alsterpaullone, a Cyclin-Dependent Kinase Inhibitor, Mediated Toxicity in HeLa Cells through Apoptosis-Inducing Effect[J]. Journal of Analytical Methods in Chemistry, 2013, 2013:1-5.

Faria C C , Agnihotri S , Mack S C , et al. Identification of alsterpaullone as a novel small molecule inhibitor to target group 3 medulloblastoma[J]. Oncotarget, 2015, 6(25):21718-21729.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481