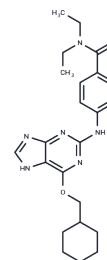


NU6140

## Chemical Properties

CAS No. : 444723-13-1  
 Formula: C<sub>23</sub>H<sub>30</sub>N<sub>6</sub>O<sub>2</sub>  
 Molecular Weight: 422.52  
 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	NU6140 is a selective inhibitor of CDK2-cyclin A (IC <sub>50</sub> , 0.41 μM). It shows 10- to 36-fold selectivity over other CDKs. NU6140 also effectively inhibits Aurora A and Aurora B (IC <sub>50</sub> s: 67 and 35 nM, respectively). It also enhances the apoptotic effect and has anti-cancer activity.
Targets(IC <sub>50</sub> )	CDK,Aurora Kinase
In vitro	NU6140 enhances catalytic activity of capase-9 and capase-3, causes an increase in the sub-G1 apoptotic cell population. NU6140 is less active on CDK1-cyclin B, CDK4-cyclin D, CDK5-p25 and CDK7-cyclin H (IC <sub>50</sub> s: 6.6, 5.5, 15 and 3.9 μM, respectively)[1].

## Solubility Information

Solubility	DMSO: 250 mg/mL (591.69 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	2.3668 mL	11.8338 mL	23.6675 mL
5 mM	0.4734 mL	2.3668 mL	4.7335 mL
10 mM	0.2367 mL	1.1834 mL	2.3668 mL
50 mM	0.0473 mL	0.2367 mL	0.4734 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

Pennati M, et al. Potentiation of apoptosis by the novel cyclin-dependent kinase inhibitor NU6140: a possible role for survivin down-regulation. Mol Cancer Ther. 2005 Sep;4(9):1328-37.

Jorda R, et al. How Selective Are Pharmacological Inhibitors of Cell-Cycle-Regulating Cyclin-Dependent Kinases? Med Chem. 2018 Oct 25;61(20):9105-9120.

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