

## Caylin-1

## Chemical Properties

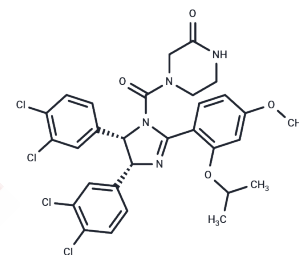
CAS No. : 1207480-88-3

Formula: C<sub>30</sub>H<sub>28</sub>Cl<sub>4</sub>N<sub>4</sub>O<sub>4</sub>

Molecular Weight: 650.38

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	Nutlin-3 is an activator of p53 that functions by inhibiting the interaction of p53 with MDM2, a negative regulator of p53 activity. Caylin-1 is a nutlin-3 analog which contains chlorine substituents at the 3 and 4 positions on two of the phenyl rings rather than a single 4-chloro as seen in nutlin-3. At high concentrations, caylin-1 inhibits the growth of HCT116 cells with an IC <sub>50</sub> value of approximately 7 μM, making it about 7-fold less potent than nutlin-3 in the same assay. Interestingly, at concentrations at or below 1 μM, caylin-1 promotes the growth of HCT116 cells approximately 20% compared to untreated cells. The mechanism of the growth promoting properties of caylin-1 have not yet been elucidated.
Targets(IC <sub>50</sub> )	Others

## Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5376 mL	7.6878 mL	15.3756 mL
5 mM	0.3075 mL	1.5376 mL	3.0751 mL
10 mM	0.1538 mL	0.7688 mL	1.5376 mL
50 mM	0.0308 mL	0.1538 mL	0.3075 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.

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