

CAY10681

## Chemical Properties

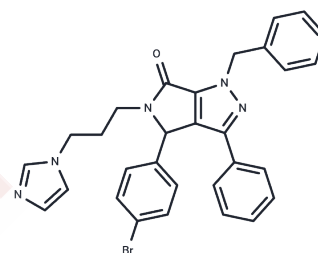
CAS No. : 1542066-69-2

Formula: C<sub>30</sub>H<sub>26</sub>BrN<sub>5</sub>O

Molecular Weight: 552.46

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	Inactivation of the tumor suppressor p53 commonly coincides with increased signaling through NF-κB in cancer. CAY10681 is a dual modulator of p53-MDM2 interaction and NF-κB signaling. It potently binds MDM2 (K <sub>i</sub> = 250 nM), reducing MDM2-mediated turnover of p53. CAY10681 also inhibits phosphorylation of IκBα and dose-dependently reduces nuclear accumulation of p65. It blocks the proliferation of cancer cell lines (IC <sub>50</sub> s range from 33 to 37 μM). CAY10681 exhibits excellent oral bioavailability and inhibits tumor growth in A549 xenografts in nude mice.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 30 mg/mL (54.3 mM),Sonication is recommended. DMF: 30 mg/mL (54.3 mM),Sonication is recommended. Ethanol:PBS (pH 7.2) (1:3): 0.25 mg/mL (0.45 mM),Sonication is recommended. Ethanol: 30 mg/mL (54.3 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	1.8101 mL	9.0504 mL	18.1009 mL
5 mM	0.362 mL	1.8101 mL	3.6202 mL
10 mM	0.181 mL	0.905 mL	1.8101 mL
50 mM	0.0362 mL	0.181 mL	0.362 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**

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