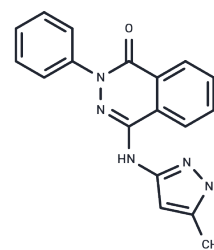


Phthalazinone pyrazole

Chemical Properties

CAS No. :	880487-62-7
Formula:	C ₁₈ H ₁₅ N ₅ O
Molecular Weight:	317.34
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	Phthalazinone pyrazole is potent, selective, and orally bioavailable inhibitor of Aurora-A kinase. Aurora-A is overexpressed in a variety of tumor types and displays oncogenic activity.
Targets(IC50)	Apoptosis,Aurora Kinase
In vitro	Phthalazinone pyrazole potently inhibited the activity of Aurora A kinase with an IC50 of 31 nM. It showed no inhibitory effect on Aurora B kinase at doses up to 100 μM. Phthalazinone pyrazole inhibited the proliferation of HCT116, Colo205, and MCF-7 cells with IC50 values of 7.8, 2.9, and 1.6 μM, respectively [1].

Solubility Information

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

	1mg	5mg	10mg
1 mM	3.1512 mL	15.756 mL	31.5119 mL
5 mM	0.6302 mL	3.1512 mL	6.3024 mL
10 mM	0.3151 mL	1.5756 mL	3.1512 mL
50 mM	0.063 mL	0.3151 mL	0.6302 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

Prime M E, Courtney S M, Brookfield F A, et al. Phthalazinone pyrazoles as potent, selective, and orally bioavailable inhibitors of Aurora-A kinase[J]. Journal of medicinal chemistry, 2010, 54(1): 312-319.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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