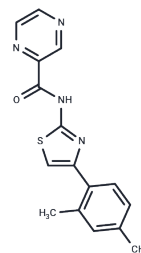


Nek2/Hec1-IN-2

Chemical Properties

CAS No. :	544416-00-4
Formula:	C ₁₆ H ₁₄ N ₄ O ₅
Molecular Weight:	310.37
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Nek2/Hec1-IN-2 is a protein-protein interaction inhibitor that disrupts the Nek2-Hec1 complex, destabilizing mitotic kinetochores. It induces chromosomal misalignment and cell cycle arrest to trigger apoptosis in various solid tumor models.
Targets(IC50)	MAPK, Microtubule Associated
In vitro	Nek2/Hec1-IN-2 mediates the degradation of Hec1 and Nek2 proteins, compromising kinetochore-microtubule attachments and leading to chromosome mis-segregation and apoptosis [1].

Solubility Information

Solubility	DMSO: 8 mg/mL (25.78 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	3.222 mL	16.1098 mL	32.2196 mL
5 mM	0.6444 mL	3.222 mL	6.4439 mL
10 mM	0.3222 mL	1.611 mL	3.222 mL
50 mM	0.0644 mL	0.3222 mL	0.6444 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

Huang T Q, Qu W Y, Ding J C, et al. Catalyst-Free Protocol for the Synthesis of Quinoxalines and Pyrazines in PEG[J]. Journal of Heterocyclic Chemistry, 2013, 50(2): 293-297.

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