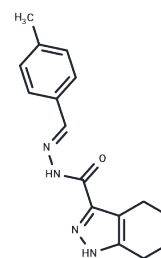


Suprafenacine

Chemical Properties

CAS No. :	1477482-50-0
Formula:	C ₁₆ H ₁₈ N ₄ O
Molecular Weight:	282.34
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	Suprafenacine (N'-[(E)-(4-methylphenyl)methylidene]-4,5,6,7-tetrahydro-1H-indazole-3-carbohydrazide) is a cell-permeable microtubule destabilizer that induces cell cycle arrest and apoptosis in G2/M phase. Suprafenacine binds to microtubules and inhibits aggregation at the colchicine junction. Suprafenacine is selective for cancer cells, including drug-resistant cancer cells.
Targets(IC50)	Microtubule Associated

Solubility Information

Solubility	DMSO: 2.83 mg/mL (10.02 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	3.5418 mL	17.7091 mL	35.4183 mL
5 mM	0.7084 mL	3.5418 mL	7.0837 mL
10 mM	0.3542 mL	1.7709 mL	3.5418 mL
50 mM	0.0708 mL	0.3542 mL	0.7084 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

Choi BH, Chattopadhyaya S, Thanh le N, Feng L, Nguyen QT, Lim CB, Harikishore A, Nanga RP, Bharatham N, Zhao Y, Liu X, Yoon HS. Suprafenacine, an indazole-hydrazide agent, targets cancer cells through microtubule destabilization. PLoS One. 2014 Oct 29;9(10):e110955.

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