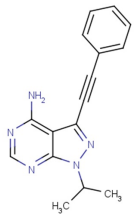
Data Sheet (Cat.No.T16923)

TargetMol
A DRUG SCREENING EXPERT

SPP-86

Chemical Properties



CAS No.:	1357349-91-7
Formula:	C16H15N5
Molecular Weight:	277.32
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	SPP-86 inhibits RET-induced phosphatidylinositide 3-kinases (PI3K)/Akt and MAPK signaling. SPP-86 also inhibits RET-induced estrogen receptorα phosphorylation in MCF7 cells. SPP-86 is an effective and selective cell-permeable inhibitor of RET tyrosine kinase (IC50: 8 nM).
Targets(IC_{50})	RET: 8 nM
In vitro	SPP86 (0-10 μM) suppresses RET- induced phosphatidylinositide 3-kinases (PI3K)/Akt and MAPK signaling and estrogen receptorα (ERα) phosphorylation in MCF7 cells. SPP86 (0-10 μM) inhibits MAPK signaling and proliferation in RET/PTC1 expressing TPC1 but not 8505C or C643 cells [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.606 mL	18.03 mL	36.059 mL
5 mM	0.721 mL	3.606 mL	7.212 mL
10 mM	0.361 mL	1.803 mL	3.606 mL
50 mM	0.072 mL	0.361 mL	0.721 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Alao JP, et al. Selective inhibition of RET mediated cell proliferation in vitro by the kinase inhibitor SPP86. BMC Cancer. 2014 Nov 20;14:853.

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