

SPP-86

## Chemical Properties

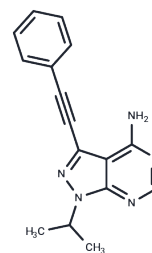
CAS No. : 1357349-91-7

Formula: C<sub>16</sub>H<sub>15</sub>N<sub>5</sub>

Molecular Weight: 277.32

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	SPP-86 is an effective and selective cell-permeable inhibitor of RET tyrosine kinase with an IC <sub>50</sub> of 8 nM.
Targets(IC <sub>50</sub> )	c-RET
In vitro	Administration of SPP-86 (0-10 μM) suppresses RET-induced phosphatidylinositide 3-kinases (PI3K)/Akt and MAPK signaling and estrogen receptorα (ERα) phosphorylation in MCF7 cells. Administration of SPP-86 (0-10 μM) also suppresses MAPK signaling and proliferation in RET/PTC1 expressing TPC1 compared to 8505C or C643 cells [1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (360.59 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (14.42 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.6059 mL	18.0297 mL	36.0594 mL
5 mM	0.7212 mL	3.6059 mL	7.2119 mL
10 mM	0.3606 mL	1.803 mL	3.6059 mL
50 mM	0.0721 mL	0.3606 mL	0.7212 mL

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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

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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