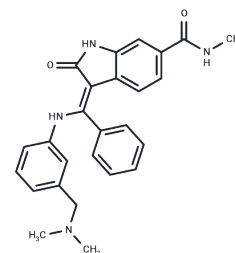


MEK inhibitor

Chemical Properties

CAS No. :	334951-92-7
Formula:	C ₂₆ H ₂₆ N ₄ O ₂
Molecular Weight:	426.51
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	MEK inhibitor is a tyrosine kinase receptor and cell cycle protein/CDK complex inhibitor with antitumor activity and can be used to study tumor cell proliferation.
Targets(IC50)	MEK
In vitro	MEK inhibitor is a potent inhibitor of MEK (mitogen-activated protein kinase), a kinase responsible for phosphorylating MAPKs (mitogen-activated protein kinases), and activated MAPKs further phosphorylate downstream transcription factors to regulate a variety of biological responses, including stress signaling, pathogen response, and hormone signaling. Inhibition of MEK leads to inhibition of MAPK phosphorylation and inhibition of biological responses downstream of MAPK. [1]

Solubility Information

Solubility	DMSO: 50 mg/mL (117.23 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: 2 mg/mL (4.69 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

	1mg	5mg	10mg
1 mM	2.3446 mL	11.7231 mL	23.4461 mL
5 mM	0.4689 mL	2.3446 mL	4.6892 mL
10 mM	0.2345 mL	1.1723 mL	2.3446 mL
50 mM	0.0469 mL	0.2345 mL	0.4689 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

Luke JJ, et al. The biology and clinical development of MEK inhibitors for cancer. *Drugs*. 2014 Dec;74(18):2111-28.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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