

MK-8353

Chemical Properties

CAS No. : 1184173-73-6

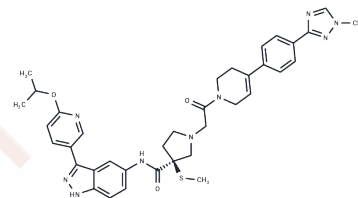
Formula: C37H41N9O3S

Molecular Weight: 691.84

Store at low temperature

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	MK-8353 (SCH900353) is a potent, selective, and orally available inhibitor of ERK1/2 with IC50 values of 23.0 nM and 8.8 nM, respectively.
Targets(IC50)	ERK
In vitro	MK-8353 is a potent, selective, and orally available ERK1/2 inhibitor with IC50 values of 23.0 nM and 8.8 nM, respectively; it exhibits antitumor activity.
In vivo	MK-8353 causes at least 50% tumor growth inhibition or regression in 83% of the animal models bearing different tumor cells[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (216.81 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 (5.78 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	1.4454 mL	7.2271 mL	14.4542 mL
5 mM	0.2891 mL	1.4454 mL	2.8908 mL
10 mM	0.1445 mL	0.7227 mL	1.4454 mL
50 mM	0.0289 mL	0.1445 mL	0.2891 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

Moschos SJ, et al. Development of MK-8353, an orally administered ERK1/2 inhibitor, in patients with advanced solid tumors. JCI Insight. 2018 Feb 22;3(4). pii: 92352.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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