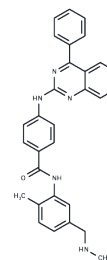


BMS-833923

Chemical Properties

CAS No. : 1059734-66-5
 Formula: C₃₀H₂₇N₅O
 Molecular Weight: 473.57
 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	BMS-833923 (XL-139), an orally bioavailable Smoothened antagonist, inhibits BODIPY cyclopamine binding to SMO in a dose-dependent manner (IC ₅₀ : 21 nM).
Targets(IC ₅₀)	Apoptosis,Hedgehog/Smoothened,SmO
In vivo	BMS-833923 dose-dependently affected the transcription of prostate hedgehog signaling genes in vitro.BMS-833923 caused a decrease in hedgehog pathway activity, reduced cell proliferation, and induced apoptosis in esophageal adenocarcinoma cell lines via an endogenous pathway.

Solubility Information

Solubility	DMSO: 88 mg/mL (185.82 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (6.97 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	2.1116 mL	10.5581 mL	21.1162 mL
5 mM	0.4223 mL	2.1116 mL	4.2232 mL
10 mM	0.2112 mL	1.0558 mL	2.1116 mL
50 mM	0.0422 mL	0.2112 mL	0.4223 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

Tang JY, et al. Semin Cutan Med Surg. 2011, 30(4 Suppl), S14-18.

Zaidi AH, et al. Cancer Invest. 2013, 31(7), 480-489.

Wilkinson SE, et al. Prostate. 2013, 73(16), 1810-1823.

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