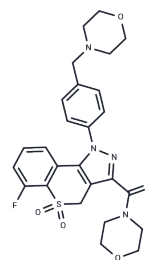


MSC2360844

Chemical Properties

CAS No. : 1305267-37-1
Formula: C₂₆H₂₇FN₄O₅
Molecular Weight: 526.58
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	MSC2360844 is a potent, orally active and selective inhibitor of PI3K δ (IC ₅₀ of 145 nM).
Targets(IC ₅₀)	PI3K
In vitro	MSC2360844 inhibits B cell proliferation in a concentration-dependent manner with an IC ₅₀ of 48 nM. MSC2360844 blocks BCR- and TCR-mediated responses in lymphocytes and TLR-induced IFN α by pDC in human primary cells[1].
In vivo	in a murine SLE model, MSC2360844 ameliorates disease manifestations [1].

Solubility Information

Solubility	DMSO: 90 mg/mL (170.91 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: 5 mg/mL (9.5 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	1.899 mL	9.4952 mL	18.9905 mL
5 mM	0.3798 mL	1.899 mL	3.7981 mL
10 mM	0.1899 mL	0.9495 mL	1.899 mL
50 mM	0.038 mL	0.1899 mL	0.3798 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

Haselmayer P, et al. Characterization of Novel PI3K δ Inhibitors as Potential Therapeutics for SLE and Lupus Nephritis in Pre-Clinical Studies. *Front Immunol.* 2014 May 22;5:233.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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