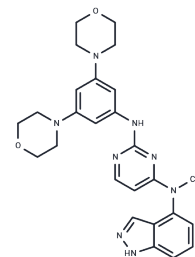


AZ12672857

Chemical Properties

CAS No. : 945396-55-4
 Formula: C₂₆H₃₀N₈O₂
 Molecular Weight: 486.57
 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	AZ12672857 is an inhibitor of EphB4 with IC ₅₀ of 1.3 nM. AZ12672857 inhibits cell proliferation of Src transfected 3T3 cells with IC ₅₀ of 2 nM and autophosphorylation of EphB4 in transfected CHO-K1 cells with IC ₅₀ of 9 nM.
Targets(IC ₅₀)	Ephrin Receptor, Prostaglandin Receptor, Src
In vitro	AZ12672857 shows IC ₅₀ s of 240 nM and 58 nM for p-KDR in HUVEC and p-PDGFR-β in MG63 cell line. AZ12672857 moderately inhibits CYP P450 with IC ₅₀ s of 5 μM for 2C9 and 3A4 and >10 μM for 1A4, 2D6 and 2C19[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (102.76 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 (4.11 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	2.0552 mL	10.276 mL	20.552 mL
5 mM	0.411 mL	2.0552 mL	4.1104 mL
10 mM	0.2055 mL	1.0276 mL	2.0552 mL
50 mM	0.0411 mL	0.2055 mL	0.411 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

Bardelle C, et al. Inhibitors of the tyrosine kinase EphB4. Part 3: identification of non-benzodioxole-based kinase inhibitors. *Bioorg Med Chem Lett.* 2010;20(21):6242-6245.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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