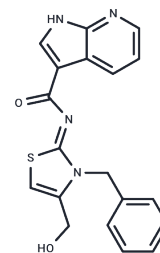


TDI-011536

Chemical Properties

CAS No. : 2687970-96-1
 Formula: C₁₉H₁₆N₄O₂S
 Molecular Weight: 364.42
 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	TDI-011536, a potent Lats kinase inhibitor, disrupts Hippo-Yap signaling and promotes the proliferation of lesioned heart muscle cells. This compound is valuable for research in organ conservation and regeneration.
Targets(IC50)	Others,YAP
In vitro	TDI-011536 (3 μM; 24 h) reduces Yap phosphorylation and (3 μM; 5 days) induces Müller glia proliferation in human retinal organoids[1].
In vivo	TDI-011536 (200 mg/kg; i.p.; once) inhibits Lats and reduces pYap levels for over 4 hours in the liver, heart, and skin, while TDI-011536 (100 mg/kg; i.p.; once daily for 2 or 3 days) exhibits a proliferative effect on cardiomyocytes[1].

Solubility Information

Solubility	DMSO: 33.93 mg/mL (93.11 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 (5.49 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	2.7441 mL	13.7204 mL	27.4409 mL
5 mM	0.5488 mL	2.7441 mL	5.4882 mL
10 mM	0.2744 mL	1.372 mL	2.7441 mL
50 mM	0.0549 mL	0.2744 mL	0.5488 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

Kastan NR, et al. Development of an improved inhibitor of Lats kinases to promote regeneration of mammalian organs. Proc Natl Acad Sci U S A. 2022 Jul 12;119(28):e2206113119.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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