

# **Product** Data Sheet

#### TDI-011536

 $\begin{tabular}{lll} \textbf{Cat. No.:} & HY-150042 \\ \textbf{CAS No.:} & 2687970-96-1 \\ \textbf{Molecular Formula:} & $C_{19}H_{16}N_4O_2S$ \\ \textbf{Molecular Weight:} & 364.42 \\ \end{tabular}$ 

Target: YAP

Pathway: Stem Cell/Wnt

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 6 months

-20°C 1 month

### **SOLVENT & SOLUBILITY**

In Vitro

DMSO: 125 mg/mL (343.01 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7441 mL	13.7204 mL	27.4409 mL
Stock Solutions	5 mM	0.5488 mL	2.7441 mL	5.4882 mL
	10 mM	0.2744 mL	1.3720 mL	2.7441 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility:  $\geq$  2.08 mg/mL (5.71 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.71 mM); Clear solution

## **BIOLOGICAL ACTIVITY**

Description	TDI-011536 is a potent Lats kinase inhibitor, interrupts Hippo-Yap signaling and initiates the proliferation of lesioned heartmuscle cells. TDI-011536 can be used in studies of organ conservation and regeneration <sup>[1]</sup> .
IC <sub>50</sub> & Target	Lats kinase <sup>[1]</sup> .
In Vitro	TDI-011536 (3 μM; 24 h) reduces Yap phosphorylation and (3 μM; 5 days) induces proliferation of Müller glia in human retinal organoids <sup>[1]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.  Cell Proliferation Assay <sup>[1]</sup>

Cell Line:	human retinal organoids
Concentration:	3 μΜ
Incubation Time:	24 h, 5 days
Result:	Supressed Yap phosphorylation and promoted Müller glia proliferation.
pYap for at least 4 h aft	; i.p.; once) provides over 4 h of Lats inhibition in the liver, heart, and skin and reduces the amou er injection in all three organs <sup>[1]</sup> .
pYap for at least 4 h aft TDI-011536 (100 mg/kg	
pYap for at least 4 h aft TDI-011536 (100 mg/kg MCE has not independe	er injection in all three organs <sup>[1]</sup> . ; i.p.; once daily for 2 or 3 days) shows proliferative effect on cardiomyocytes <sup>[1]</sup> . ently confirmed the accuracy of these methods. They are for reference only.  Living mice (immunoblot analysis of the heart, liver, and skin immediately after injection)
pYap for at least 4 h aft TDI-011536 (100 mg/kg MCE has not independe Animal Model:	er injection in all three organs <sup>[1]</sup> .  g; i.p.; once daily for 2 or 3 days) shows proliferative effect on cardiomyocytes <sup>[1]</sup> .  ently confirmed the accuracy of these methods. They are for reference only.  Living mice (immunoblot analysis of the heart, liver, and skin immediately after injection [1].

Intraperitoneal injections; once daily for 2 or 3 days.

Promoted cardiomyocytes proliferation.

#### **REFERENCES**

Dosage:

Result:

Administration:

In Vivo

[1]. 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.

100 mg/kg

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

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