Product Data Sheet

TDI-011536

Cat. No.: HY-150042 CAS No.: 2687970-96-1 Molecular Formula: $C_{19}H_{16}N_4O_2S$ Molecular Weight: 364.42 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 |
| | 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 ^[1] . |
|---------------------------|---|
| IC ₅₀ & Target | Lats $kinase^{[1]}$. |
| 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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1] |

| Cell Line: | human retinal organoids |
|-----------------------|---|
| Concentration: | 3 μΜ |
| Incubation Time: | 24 h, 5 days |
| Result: | Supressed Yap phosphorylation and promoted Müller glia proliferation. |
| TDI-011536 (100 mg/kg | ; i.p.; once daily for 2 or 3 days) shows proliferative effect on cardiomyocytes ^[1] . |
| | i.p.; once daily for 2 or 3 days) shows proliferative effect on cardiomyocytes ^[1] . 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]. |
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| MCE has not independe | 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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