# Notch inhibitor 1

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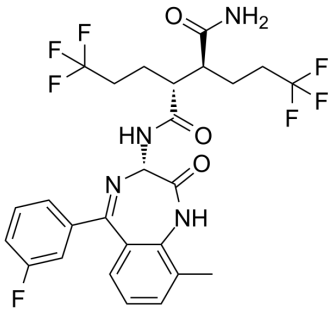
|---|---|
| **Cat. No.:** | HY-12860 |
| **CAS No.:** | 1584647-27-7 |
| **Molecular Formula:** | $C_{26}H_{25}F_7N_4O_3$ |
| **Molecular Weight:** | 574.49 |
| **Target:** | Notch |
| **Pathway:** | Neuronal Signaling; Stem Cell/Wnt |
| **Storage:** | 4°C, stored under nitrogen<br>* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen) |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 13.12 mg/mL (22.84 mM; ultrasonic and warming and heat to 70°C)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 1.7407 mL | 8.7034 mL | 17.4067 mL |
| | 5 mM | 0.3481 mL | 1.7407 mL | 3.4813 mL |
| | 10 mM | 0.1741 mL | 0.8703 mL | 1.7407 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: 1.31 mg/mL (2.28 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 1.31 mg/mL (2.28 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 1.31 mg/mL (2.28 mM); Clear solution; Need ultrasonic

## BIOLOGICAL ACTIVITY

**Description**

Notch inhibitor 1 is a potent Notch inhibitor, with $IC_{50}$s of 7.8 and 8.5 nM for Notch 1 and Notch 3, respectively. Used in the research of cancer[1].

**$IC_{50}$ & Target**

IC50: 7.8 nM (Notch 1), 8.5 nM (Notch 3)[1]

**In Vitro**

Notch inhibitor 1 (Example 1) potently inhibits Notch signaling pathway[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

- Research Square Preprint. 2020 Jun.

See more customer validations on www.MedChemExpress.com

## REFERENCES

[1]. Ashvinikumar V. Gavai, et al. Bis(fluoroalkyl)-1,4-benzodiazepinone compounds as notch inhibitors. WO2014047372A1.



Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA