BPN-15606

| Cat. No.: | HY-117482 | |
|--------------------|---|-----|
| CAS No.: | 1914989-49-3 | |
| Molecular Formula: | C ₂₃ H ₂₃ FN ₆ O | |
| Molecular Weight: | 418.47 | |
| Target: | γ-secretase | |
| Pathway: | Neuronal Signaling; Stem Cell/Wnt | F H |
| Storage: | -20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen) | |
| | | |

SOLVENT & SOLUBILITY

| | Preparing Stock Solutions | Mass Solvent Concentration | 1 mg | 5 mg | 10 mg | |
|--------|------------------------------|---|-----------|------------|------------|--|
| | | 1 mM | 2.3897 mL | 11.9483 mL | 23.8966 mL | |
| | | 5 mM | 0.4779 mL | 2.3897 mL | 4.7793 mL | |
| | | 10 mM | 0.2390 mL | 1.1948 mL | 2.3897 mL | |
| | Please refer to the sc | Please refer to the solubility information to select the appropriate solvent. | | | | |
| n Vivo | | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution | | | | |
| | 2. Add each solvent | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution | | | | |

| BIOLOGICAL ACTIVITY | | | | | |
|---------------------------|--|--|--|--|--|
| Description | BPN-15606 is a highly potent, orally active γ-secretase modulator (GSM), attenuates the production of Aβ42 and Aβ40 by SHSY5Y neuroblastoma cells with IC ₅₀ values of 7 nM and 17nM, respectively. BPN-15606 lowers Aβ42 and Aβ40 levels in the central nervous system of rats and mice. BPN-15606 has acceptable PK/PD properties, including bioavailability, half-life, and clearance ^[1] . | | | | |
| IC ₅₀ & Target | γ-secretase ^[1] | | | | |
| In Vivo | BPN-15606 (oral administration; 10 mg/kg, 25 mg/kg and 50 mg/kg; 7 days) shows excellent dose-dependent efficacy in both plasma and brain on lowering of Aβ42 and Aβ40 levels in mice ^[1] . BPN-15606 (oral administration; 5 mg/kg, 25 mg/kg and 50 mg/kg; 9 days) dose-dependently reduces CSF on lowering of A β42 and Aβ40 levels in rats ^[1] . | | | | |

Ì

Product Data Sheet



BPN-15606 (oral administration; 25 mg/kg; single dose) shows a robust effect on both brain and plasma Aβ 42 and Aβ40 levels, which begins approximately 30–60 minutes following the single dose administration and lasted for ≥24 hours in C57BL/6 mice^[1].

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

REFERENCES

[1]. Wagner SL, et al. Pharmacological and Toxicological Properties of the Potent Oral y-Secretase Modulator BPN-15606. J Pharmacol Exp Ther. 2017 Jul;362(1):31-44.

Caution: Product has not been fully validated for medical applications. For research use only.

 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