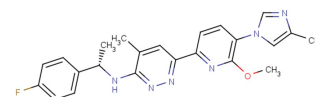


BPN-15606

Chemical Properties

CAS No.:	1914989-49-3
Formula:	C23H23FN6O
Molecular Weight:	418.47
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	BPN-15606 is a highly potent, orally active γ -secretase modulator (GSM), attenuates the production of A β 42 and A β 40 by SHSY5Y neuroblastoma cells with IC ₅₀ values of 7 nM and 17nM, respectively. BPN-15606 has acceptable PK/PD properties, including bioavailability, half-life, and clearance. BPN-15606 significantly lowers A β 42 and A β 40 levels in the central nervous system of rats and mice[1].
Targets(IC ₅₀)	γ -secretase: None
In vivo	BPN-15606 (oral administration; 25 mg/kg; single dose) shows a robust effect on both brain and plasma A β 42 and A β 40 levels, which begins approximately 30–60 minutes following the single dose administration and lasted for \geq 24 hours in C57BL/6 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 β 42 and A β 40 levels in rats[1]. 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 A β 42 and A β 40 levels in mice[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.39 mL	11.948 mL	23.897 mL
5 mM	0.478 mL	2.39 mL	4.779 mL
10 mM	0.239 mL	1.195 mL	2.39 mL
50 mM	0.048 mL	0.239 mL	0.478 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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