## BPN-15606

Cat. No.:	HY-117482	
CAS No.:	1914989-49-3	
Molecular Formula:	C <sub>23</sub> H <sub>23</sub> FN <sub>6</sub> 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 <sub>50</sub> 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 <sup>[1]</sup> .				
IC <sub>50</sub> & Target	γ-secretase <sup>[1]</sup>				
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 <sup>[1]</sup> . 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 <sup>[1]</sup> .				

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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<sup>[1]</sup>.

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.

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