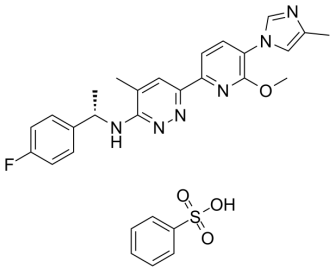
BPN-15606 besylate

Cat. No.:	HY-117482A
CAS No.:	2436239-00-6
Molecular Formula:	$C_{29}H_{29}FN_6O_4S$
Molecular Weight:	576.64
Target:	γ-secretase
Pathway:	Neuronal Signaling; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BPN-15606 besylate is a highly potent, orally active γ-secretase modulator (GSM), attenuates the production of Aβ42 and A β40 by SHSY5Y neuroblastoma cells with IC_{50} values of 7 nM and 17nM, respectively. BPN-15606 besylate lowers Aβ42 and A β40 levels in the central nervous system of rats and mice. BPN-15606 besylate has acceptable PK/PD properties, including bioavailability, half-life, and clearance[1].
IC_{50} & Target	γ-secretase[1]
In Vitro	BPN-15606 besylate (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 besylate (oral administration; 5 mg/kg, 25 mg/kg and 50 mg/kg; 9 days) dose-dependently reduces CSF on lowering of Aβ42 and Aβ40 levels in rats[1]. BPN-15606 besylate (oral administration; 25 mg/kg; single dose) shows a robust effect on both brain and plasma Aβ 42 and A β40 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 γ-Secretase Modulator BPN-15606. J Pharmacol Exp Ther. 2017 Jul;362(1):31-44.

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