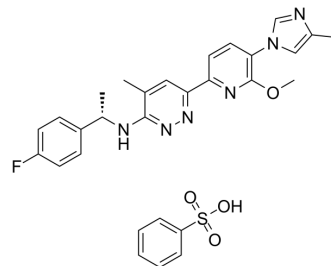


## BPN-15606 besylate

Cat. No.:	HY-117482A
Molecular Formula:	C <sub>29</sub> H <sub>29</sub> FN <sub>6</sub> O <sub>4</sub> S
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

<b>Description</b>	BPN-15606 besylate is a highly potent, orally active γ-secretase modulator (GSM), attenuates the production of Aβ <sub>42</sub> and Aβ <sub>40</sub> by SHSY5Y neuroblastoma cells with IC <sub>50</sub> values of 7 nM and 17nM, respectively. BPN-15606 besylate lowers Aβ <sub>42</sub> and Aβ <sub>40</sub> levels in the central nervous system of rats and mice. BPN-15606 besylate has acceptable PK/PD properties, including bioavailability, half-life, and clearance <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	γ-secretase <sup>[1]</sup>
<b>In Vitro</b>	<p>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 Aβ<sub>42</sub> and Aβ<sub>40</sub> levels in mice<sup>[1]</sup>.</p> <p>BPN-15606 besylate (oral administration; 5 mg/kg, 25 mg/kg and 50 mg/kg; 9 days) dose-dependently reduces CSF on lowering of Aβ<sub>42</sub> and Aβ<sub>40</sub> levels in rats<sup>[1]</sup>.</p> <p>BPN-15606 besylate (oral administration; 25 mg/kg; single dose) shows a robust effect on both brain and plasma Aβ<sub>42</sub> and Aβ<sub>40</sub> levels, which begins approximately 30–60 minutes following the single dose administration and lasted for ≥24 hours in C57BL/6 mice<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### 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.

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

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