

Umibecestat HCl

Chemical Properties

CAS No. : 2365306-62-1

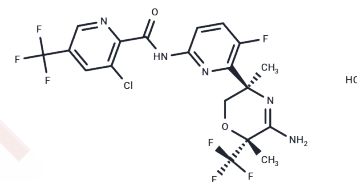
Formula: C₁₉H₁₆Cl₂F₇N₅O₂

Molecular Weight: 550.26

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Umibecestat HCl (CNP520 HCl) is a highly efficient β -secretase (BACE1/BACE2) inhibitor, lowering A β levels in mice and rats, used in Alzheimer's disease research.
Targets(IC50)	BACE
In vitro	Umibecestat HCl is a potent BACE-1 inhibitor that is selective for BACE-1 over other human pepsin-like aspartic proteases.[1]
In vivo	Methods: Umibecestat HCl (1.5mg/kg-51.3mg/kg, gavage, 72 hours) was administered to male rats, and the distribution of A β 40 in rat brain tissue was measured 4 hours later. Results: At the highest dose, A β 40 in brain tissue was reduced by 89.3 \pm 4.5%, and the 50% reduction in rat brain A β 40 (ED50) was 2.4 \pm 0.31 mg/kg. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8173 mL	9.0866 mL	18.1732 mL
5 mM	0.3635 mL	1.8173 mL	3.6346 mL
10 mM	0.1817 mL	0.9087 mL	1.8173 mL
50 mM	0.0363 mL	0.1817 mL	0.3635 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Neumann U, et al. The BACE-1 inhibitor CNP520 for prevention trials in Alzheimer's disease. EMBO Mol Med. 2018 Nov;10(11). pii: e9316.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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