

Product Data Sheet

Product Name: Umibecestat

Cat. No.: GC65361

Chemical Properties

Cas. No. 1387560-01-1

Formula C₁₉H₁₅ClF₇N₅O₂

M.Wt 513.8

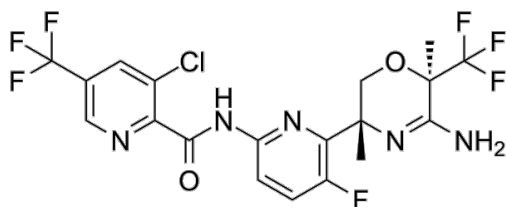
Solubility DMSO : 100 mg/mL (194.63 mM; Need ultrasonic)

Storage 4°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Umibecestat (CNP520) is a beta-site amyloid precursor protein cleaving enzyme-1 (BACE-1) inhibitor with IC₅₀s of 11 nM and 10 nM for human BACE-1 and mouse BACE-1, respectively[1]. Umibecestat can be used for the research of alzheimer's disease.

Umibecestat (CNP520) is a potent BACE-1 inhibitor that is selective for BACE-1 over other human

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

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pepsin-like aspartic proteases, including BACE-2 and cathepsin D[1].

Umibecestat (CNP520) (1.5-51.3 mg/kg; given by oral gavage; 72 hours) shows a dose-dependent effects on A β 40 and a long duration of action in both rat brain and CSF[1]. Umibecestat (CNP520) (3.1 mg/kg; oral administration; 7 days) shows a > 75% reduction on A β 40 and A β 42 in CSF after dosing and returns slowly to baseline over the next 7 days[1].

[1]. 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.

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