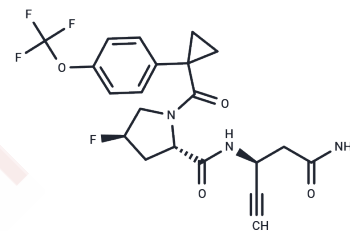


AEP-IN-3

Chemical Properties

CAS No. :	2978521-26-3
Formula:	C ₂₁ H ₂₁ F ₄ N ₃ O ₄
Molecular Weight:	455.4
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	AEP-IN-3 (compound 18) is an orally administered, potent asparagine endopeptidase (AEP) inhibitor that effectively crosses the blood-brain barrier. It boasts an IC ₅₀ of 7.8 ± 0.9 nM and is applicable in Alzheimer's Disease (AD) research [1].
Targets(IC ₅₀)	Others,Cysteine Protease
In vivo	AEP-IN-3 (Compound 18) exhibits a bioavailability of 83% with a half-life of T _{1/2} [1]. Administered orally at a dosage of 20 mg/kg twice daily with a 7-8 hour interval for five consecutive days, AEP-IN-3 showed significant inhibition of AEP activity in the brains of transgenic mice carrying human Tau 2N4R isoform with P301L mutation in the FVB/N genetic background (3.8 months old) [1]. It also reduced the formation of Tau N368 fragments, although it did not significantly affect total Tau levels [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1959 mL	10.9794 mL	21.9587 mL
5 mM	0.4392 mL	2.1959 mL	4.3917 mL
10 mM	0.2196 mL	1.0979 mL	2.1959 mL
50 mM	0.0439 mL	0.2196 mL	0.4392 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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