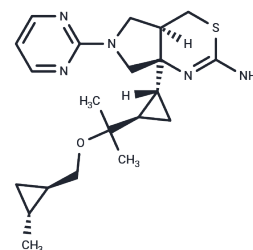


BACE1/2-IN-1

Chemical Properties

CAS No. :	2671036-34-1
Formula:	C ₂₁ H ₃₁ N ₅ O ₅
Molecular Weight:	401.57
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	BACE1/2-IN-1 (compound 34) is an effective BACE1 and BACE2 inhibitor with IC ₅₀ values of 0.01 and 0.0053 μM, respectively. It exhibits a lower Pgp efflux ratio, improved passive permeability, and decreased metabolic stability in liver microsomes.
Targets(IC ₅₀)	Beta Amyloid,Others,Beta-Secretase
In vitro	Compound 34, identified as BACE1/2-IN-1, exhibits a modest preference for BACE2 over BACE1, while maintaining a selectivity greater than 3000-fold when compared to Cathepsin D [1].
In vivo	Administered subcutaneously at doses of 0-100 mg/kg in PDAPP (V717F) transgenic mice, BACE1/2-IN-1 (compound 34) significantly reduces cortical Aβ levels by 40% at 100 mg/kg and 24% at 30 mg/kg, with no significant reduction (12%NS) observed at 10 mg/kg [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4902 mL	12.4511 mL	24.9023 mL
5 mM	0.498 mL	2.4902 mL	4.9805 mL
10 mM	0.249 mL	1.2451 mL	2.4902 mL
50 mM	0.0498 mL	0.249 mL	0.498 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

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