

PBA-1105 TFA

Chemical Properties

CAS No. :

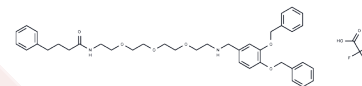
Formula: C41H49F3N2O8

Molecular Weight: 754.832

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	PBA-1105 TFA is an autophagy-targeting chimera (AUTOTAC) that induces p62 self-oligomerization. This compound selectively binds to the exposed hydrophobic regions of misfolded proteins, promoting their degradation through the autophagy (autophagy) pathway. Additionally, PBA-1105 TFA enhances the autophagic flux of Ub-bound aggregates.
Targets(IC50)	Autophagy,AUTACs
In vitro	PBA-1105 TFA induces the autophagic degradation of stably expressed mutant tau at a concentration of DC 50 = 0.71 nM and D max, 24 hr = 100 nM, with a subsequent hook effect at higher concentrations [1]. At nanomolar concentrations (0.1-10 μM; 24 hours), PBA-1105 (TFA) promotes the autophagic breakdown of misfolded proteins and aggregates. PBA-1105 TFA significantly degrades mutant tau and misfolded proteins [1].
In vivo	The administration of PBA-1105 (20-50 mg/kg; intraperitoneal injection; three times a week; for 4 weeks) effectively reduced tau aggregation and oligomer species in a transgenic mouse model of tauopathies [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3248 mL	6.624 mL	13.248 mL
5 mM	0.265 mL	1.3248 mL	2.6496 mL
10 mM	0.1325 mL	0.6624 mL	1.3248 mL
50 mM	0.0265 mL	0.1325 mL	0.265 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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