

PB118

Chemical Properties

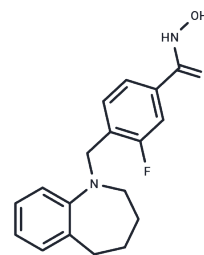
CAS No. :

Formula: C₁₈H₁₉FN₂O₂

Molecular Weight: 314.35

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	PB118 has the capacity to effectively clear A β deposits by augmenting phagocytosis, enhance the tubulin/microtubule network through increased acetyl α -tubulin levels, modulate various inflammation-associated cytokines and chemokines, and notably diminish phospho-tau (p-tau) levels linked to Alzheimer's disease (AD). The IC ₅₀ of PB118 for HDAC6 is 5.6 nM.
Targets(IC ₅₀)	Others,HDAC

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1812 mL	15.9058 mL	31.8117 mL
5 mM	0.6362 mL	3.1812 mL	6.3623 mL
10 mM	0.3181 mL	1.5906 mL	3.1812 mL
50 mM	0.0636 mL	0.3181 mL	0.6362 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

Mondal P, Bai P, Gomm A, et al. Structure-Based Discovery of A Small Molecule Inhibitor of Histone Deacetylase 6 (HDAC6) that Significantly Reduces Alzheimer's Disease Neuropathology. Adv Sci (Weinh). Published online November 21, 2023.

Bai P, Mondal P, Bagdasarian FA, et al. Development of a potential PET probe for HDAC6 imaging in Alzheimer's disease. Acta Pharm Sin B. 2022;12(10):3891-3904.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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