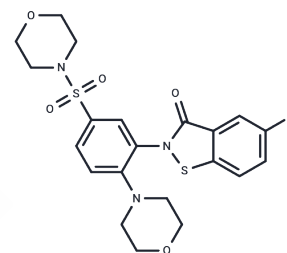


ML-345

Chemical Properties

CAS No. : 1632125-79-1
 Formula: C₂₁H₂₂FN₃O₅S₂
 Molecular Weight: 479.55
 Storage: Keep away from moisture
 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	ML-345 is a selective and potent IDE (insulin-degrading enzyme) inhibitor (IC ₅₀ =188 nM) targeting the cysteine residue Cys819 in IDE, suitable for studying type 2 diabetes and Alzheimer's disease.
Targets(IC ₅₀)	MMP

Solubility Information

Solubility	DMF: 5 mg/mL (10.43 mM), Sonication is recommended. DMF:PBS(pH 7.2)(1:1): 0.5 mg/mL (1.04 mM), Sonication is recommended. DMSO: 20 mg/mL (41.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0853 mL	10.4264 mL	20.8529 mL
5 mM	0.4171 mL	2.0853 mL	4.1706 mL
10 mM	0.2085 mL	1.0426 mL	2.0853 mL
50 mM	0.0417 mL	0.2085 mL	0.4171 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

Bannister TD, Wang H, Abdul-Hay SO, et al. ML345, A Small-Molecule Inhibitor of the Insulin-Degrading Enzyme (IDE). In: Probe Reports from the NIH Molecular Libraries Program. Bethesda (MD): National Center for Biotechnology Information (US); December 17, 2012.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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