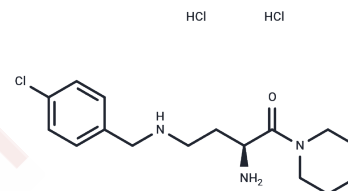


UAMC00039 dihydrochloride

Chemical Properties

CAS No. : 697797-51-6
 Formula: C₁₆H₂₆Cl₃N₃O
 Molecular Weight: 382.76
 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	UAMC00039 dihydrochloride is a potent, reversible, and competitive inhibitor of dipeptidyl peptidase II, with an IC ₅₀ of 0.48 nM.
Targets(IC ₅₀)	Proteasome
Kinase Assay	Stability of UAMC00039 in RPMI medium or assay buffer (50 mM cacodylate buffer pH5.5) is monitored at 37 °C. The inhibitors' capacity (IC ₅₀) to inhibit DPPII is measured at different time points (up to 48 h). U937 cells are incubated with various concentrations of UAMC00039 for 15 min at 37 °C in RPMI. Cells are then ished with PBS, lysed and assayed for DPPII activity. Concentration–response and time–response curves are generated from incubations of PBMC with UAMC00039 (0.01 nM–1 μM) in RPMI at 37 °C for 1, 5, 15, 30 and 60 min. Ished cells are lysed overnight at 4 °C using 100 mM HEPES buffer pH 7.4, 10 mM EDTA, 70 μg/mL aprotinin and 1% octylglucoside.
Animal Research	Rat: UAMC00039 is administered orally at 2 mg/kg (~ 5 μMol/kg in a vehicle of 2% tween 80, 10 mL/kg) on a blind basis in all in vivo assays. For each assay, a reference compound and vehicle control is analyzed concurrently. For the in vivo studies 3 to 5 animals per condition are tested.

Solubility Information

Solubility	DMSO: 55 mg/mL (143.69 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	2.6126 mL	13.063 mL	26.126 mL
5 mM	0.5225 mL	2.6126 mL	5.2252 mL
10 mM	0.2613 mL	1.3063 mL	2.6126 mL
50 mM	0.0523 mL	0.2613 mL	0.5225 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

Maes MB, et al. In vivo effects of a potent, selective DPPII inhibitor: UAMC00039 is a possible tool for the elucidation of the physiological function of DPPII. *Adv Exp Med Biol.* 2006;575:73-85.

Maes MB, et al. Dipeptidyl peptidase II and leukocyte cell death. *Biochem Pharmacol.* 2006 Jun 28;72(1):70-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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