

Acetyl-Calpastatin (184-210)(human) acetate

Chemical Properties

CAS No. :

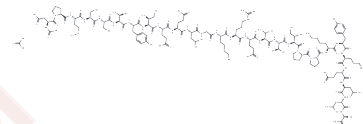
Formula: C144H234N36O46S

Molecular Weight: 3237.68

Store at low temperature, Keep away from moisture

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	Acetyl-Calpastatin (184-210)(human) acetate is a potent, selective and reversible calpain inhibitor with K_i values of 0.2 nM and 6 μ M for μ -calpain and cathepsin L, respectively.
Targets(IC50)	Cysteine Protease
In vitro	Acetyl-Calpastatin (184-210)(human) acetate (peptide 1; 12.5-100 μ M) inhibits calpains in LCLC 103H cells with an IC50 of 27 μ M[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3089 mL	1.5443 mL	3.0886 mL
5 mM	0.0618 mL	0.3089 mL	0.6177 mL
10 mM	0.0309 mL	0.1544 mL	0.3089 mL
50 mM	0.0062 mL	0.0309 mL	0.0618 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

Ferdinando Fiorino, et al. A new cell-permeable calpain inhibitor. J Pept Sci. 2007 Jan;13(1):70-3.

Benjamin P Davis, et al. Eosinophilic esophagitis-linked calpain 14 is an IL-13-induced protease that mediates esophageal epithelial barrier impairment. JCI Insight. 2016 Apr;1(4):e86355.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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