

## Camstatin acetate

## Chemical Properties

CAS No. :

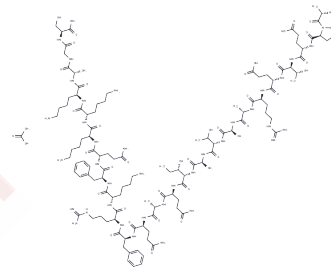
Formula: C124H207N39O36

Molecular Weight: 2820.21

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	Camstatin acetate binds calmodulin and inhibits neuronal nitric oxide synthase. Camstatin acetate is a functionally active 25-residue fragment of the single calmodulin-binding IQ motif of PEP-19.
Targets(IC50)	NO Synthase
In vitro	A truncated Camstatin acetate-in which the IQ motif serine is the only phosphorylatable residue-was screened against 42 different kinases. Truncated Camstatin acetate is selectively phosphorylated by four isoforms of protein kinase C. Treatment of full-length PEP-19 with PKCgamma catalyzes phosphorylation of the same serine residue. Phosphorylation of Camstatin acetate inhibits its binding to calmodulin. Both Camstatin acetate and phospho-Camstatin acetate exist in similar dynamic turn-like conformations [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3546 mL	1.7729 mL	3.5458 mL
5 mM	0.0709 mL	0.3546 mL	0.7092 mL
10 mM	0.0355 mL	0.1773 mL	0.3546 mL
50 mM	0.0071 mL	0.0355 mL	0.0709 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

J Bradley Dickerson, et al. The influence of phosphorylation on the activity and structure of the neuronal IQ motif protein, PEP-19. Brain Res. 2006 May 30;1092(1):16-27.

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