

## Camstatin acetate

### Chemical Properties

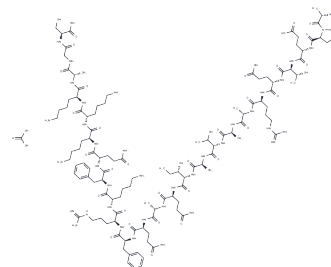
CAS No. :

Formula: C124H207N39O36

Molecular Weight: 2820.21

Appearance: no data available

Storage: keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year



### 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.

### 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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Tel:781-999-4286    E\_mail:info@targetmol.com    Address:36 Washington Street,Wellesley Hills,MA 02481