

Cortagine

Chemical Properties

CAS No. :

Formula: C192H323N55O63S

Molecular Weight: 4442.06

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 | Potent and selective corticotrophin releasing factor receptor 1 (CRF1) agonist (EC50 = 0.18 nM for rat CRF1). Displays anxiolytic and antidepressant activity in vivo. Microinfusion into mouse prefrontal cortex reduces defensive behavior in vivo. |
| Targets(IC50) | CRFR |

Solubility Information

| | |
|------------|---|
| Solubility | 0.01M PBS: 1 mg/mL (0.23 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.2251 mL | 1.1256 mL | 2.2512 mL |
| 5 mM | 0.045 mL | 0.2251 mL | 0.4502 mL |
| 10 mM | 0.0225 mL | 0.1126 mL | 0.2251 mL |
| 50 mM | 0.0045 mL | 0.0225 mL | 0.045 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

Tezval et al (2004) Cortagine, a specific agonist of corticotropin-releasing factor receptor subtype 1, is anxiogenic and antidepressive in the mouse model. Proc.Natl.Acad.Sci.U.S.A. 101 9468 PMID:

Farrokhi et al (2007) Cortagine: behavioral and autonomic function of the selective CRF receptor subtype 1 agonist. CNS Drug Rev. 13 423 PMID:

Pentkowski et al (2013) Cortagine infused into the medial prefrontal cortex attenuates predator-induced defensive behaviors and Fos protein production in selective nuclei of the amygdala in male CD1 mice. Horm.Behav. 64 519 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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