

CRSP-1

Chemical Properties

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|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS No. : | 697327-12-1 |
| Formula: | C175H294N54O49S5 |
| Molecular Weight: | 4098.88 |
| Storage: | Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |

Biological Description

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|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Endogenous central calcitonin (CT) receptor agonist that stimulates cAMP formation at a potency 350-fold greater than CT (ED50 values are 0.2 and 71 nM respectively). Displays no activity at calcitonin-gene related peptide (CGRP) and adrenomedullin receptors. Inhibits formation of multinuclear osteoclasts with similar efficacy to CT in vitro. Suppresses food intake and increases body temperature in free-feeding rats, and significantly decreases plasma calcium levels in vivo. |
| Targets(IC50) | CGRP Receptor |

Solubility Information

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|------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | 10% acetonitrile / water: 0.5 mg/mL (0.12 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 | 0.244 mL | 1.2198 mL | 2.4397 mL |
| 5 mM | 0.0488 mL | 0.244 mL | 0.4879 mL |
| 10 mM | 0.0244 mL | 0.122 mL | 0.244 mL |
| 50 mM | 0.0049 mL | 0.0244 mL | 0.0488 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

Katafuchi et al (2003) Calcitonin receptor-stimulating peptide, a new member of the calcitonin gene-related peptide family. Its isolation from porcine brain, structure, tissue distribution, and biological activity. J.Biol.Chem. 278 12046 PMID:

Sawada et al (2006) Central effects of calcitonin receptor-stimulating peptide-1 on energy homeostasis in rats. Endocrinology 147 2043 PMID:

Notoya et al (2007) A novel member of the calcitonin gene-related peptide family, calcitonin receptor-stimulating peptide, inhibits the formation and activity of osteoclasts. Eur.J.Pharmacol. 560 234 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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