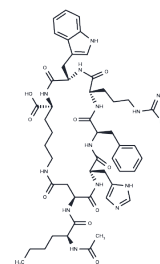


Bremelanotide

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 189691-06-3 |
| Formula: | C50H68N14O10 |
| Molecular Weight: | 1025.16 |
| 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

| | |
|---------------|---|
| Description | Bremelanotide is a peptide agonist that acts on the melanocortin receptor (MC4R), activating it and increasing dopamine release, thereby inducing sexual behavior, female mounting behavior, and repetitive self-grooming behavior. Bremelanotide can be used in research on hypoactive sexual desire disorder. |
| Targets(IC50) | Melanocortin Receptor |
| In vivo | Methods: Female rats were administered subcutaneous injections of bremelanotide (200 µg/kg), and samples were collected continuously following administration. Results: Bremelanotide significantly increased dopamine release in the mPOA but had no effect on dopamine levels in the NAc and VMH. [1] |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: Soluble, H2O: 80 mg/mL (78.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.9755 mL | 4.8773 mL | 9.7546 mL |
| 5 mM | 0.1951 mL | 0.9755 mL | 1.9509 mL |
| 10 mM | 0.0975 mL | 0.4877 mL | 0.9755 mL |
| 50 mM | 0.0195 mL | 0.0975 mL | 0.1951 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

Pfaus J, et al. Bremelanotide: an overview of preclinical CNS effects on female sexual function. J Sex Med. 2007;4 Suppl 4:269-279.

Harberson M T, et al. Bremelanotide, a Medication for Hypoactive Sexual Desire Disorder, Promotes Repetitive Self-grooming and Avoidance Behavior in Mice[D]. The University of Toledo, 2024.

Molinoff PB, et al. PT-141: a melanocortin agonist for the treatment of sexual dysfunction. Ann N Y Acad Sci. 2003 Jun;994:96-102.

Pfaus J, Giuliano F, Gelez H. Bremelanotide: an overview of preclinical CNS effects on female sexual function. J Sex Med. 2007 Nov;4 Suppl 4:269-79. PubMed PMID: 17958619.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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