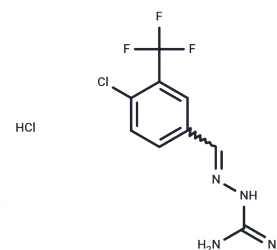


AC-099 hydrochloride

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 849335-07-5 |
| Formula: | C ₉ H ₉ Cl ₂ F ₃ N ₄ |
| Molecular Weight: | 301.1 |
| 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 | AC-099 hydrochloride is a selective full agonist of the neuropeptide FF2 receptor NPFF2R (EC ₅₀ =1189 nM) and partial agonist function of the neuropeptide FF1 receptor NPFF1R (EC ₅₀ =2370 nM) that reverses opioid-induced nociceptive sensitization, and may be used to study neurological.... |
| Targets(IC50) | Others,Neuropeptide FF Receptor |
| In vivo | The NPFF2 agonist AC-099 (30 mg/kg; i.p.) exhibits activity in various pain models in vivo, whereas non-selective NPFF1 agonist administration increases sensitivity to both noxious and non-noxious stimuli[1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.3212 mL | 16.6058 mL | 33.2116 mL |
| 5 mM | 0.6642 mL | 3.3212 mL | 6.6423 mL |
| 10 mM | 0.3321 mL | 1.6606 mL | 3.3212 mL |
| 50 mM | 0.0664 mL | 0.3321 mL | 0.6642 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

- Findeisen M, et al. Selective mode of action of guanidine-containing non-peptides at human NPFF receptors. J Med Chem. 2012 Jul 12;55(13):6124-36.
- Gaubert G, et al. Discovery of selective nonpeptidergic neuropeptide FF2 receptor agonists. J Med Chem. 2009 Nov 12;52(21):6511-4.

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