Data Sheet (Cat.No.T15450)



GW-803430

Chemical Properties

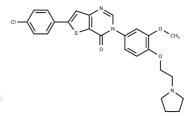
CAS No.: 515141-51-2

Formula: C25H24ClN3O3S

Molecular Weight: 481.99

Appearance: no data available

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



Biological Description

| Description | GW-803430 is a potent and selective antagonist of melanin-concentrating hormone receptor 1 (MCH R1) (pIC50: 9.3). GW-803430 is orally active in an animal model of obesity. | | |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Targets(IC50) | Others | | |
| In vitro | GW-803430 shows a potent antagonist activity towards MCH induced MCHR1 receptor (IC50: ~13?nM)[2]. | | |
| In vivo | GW-803430 is a suitable compound for its good pharmacokinetic properties (bioavailability=31%, t1/2=11 h) and brain penetration (6:1 brain: plasma concentration) in mice. GW-803430 (0.3, 3, and 15 mg/kg; p.o.; once daily) induces a sustained dose-dependent weight loss relative to vehicle controls [1]. | | |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.0747 mL | 10.3737 mL | 20.7473 mL |
| 5 mM | 0.4149 mL | 2.0747 mL | 4.1495 mL |
| 10 mM | 0.2075 mL | 1.0374 mL | 2.0747 mL |
| 50 mM | 0.0415 mL | 0.2075 mL | 0.4149 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

Hertzog DL, et al. The discovery and optimization of pyrimidinone-containing MCH R1 antagonists. Bioorg Med Chem Lett. 2006 Sep 15;16(18):4723-7.

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

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