

CP-544439

Chemical Properties

CAS No. : 230954-09-3

Formula: C₁₈H₁₉FN₂O₆S

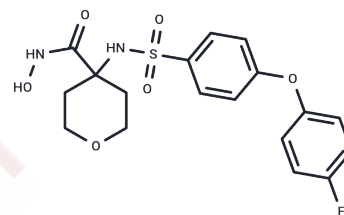
Molecular Weight: 410.42

Storage:

Keep away from direct sunlight, Store at low temperature, Store under nitrogen

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 | CP-544439 is an orally active and potent MMP-13 inhibitor that prevents diet-induced obesity and inhibits adipogenesis in 3T3-L1 preadipocytes in mice, and can be used for the study of obesity. |
| Targets(IC50) | MMP |
| In vivo | CP-544439 distributed to all tissues in rats except for the central nervous system. Except for the periodontal ligament, the radioactivity was rapidly eliminated from most tissues [1]. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.4365 mL | 12.1826 mL | 24.3653 mL |
| 5 mM | 0.4873 mL | 2.4365 mL | 4.8731 mL |
| 10 mM | 0.2437 mL | 1.2183 mL | 2.4365 mL |
| 50 mM | 0.0487 mL | 0.2437 mL | 0.4873 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

Dalvie D, et al. Metabolism distribution and excretion of a matrix metalloproteinase-13 inhibitor, 4-[4-(4-fluorophenoxy)-benzenesulfonylamino]tetrahydropyran-4-carboxylic acid hydroxyamide (CP-544439), in rats and dogs: assessment of the metabolic profile of CP-544439 in plasma and urine of humans. Drug Metab Dispos. 2008 Sep;36(9):1869-83.

Reiter LA, et al. Pyran-containing sulfonamide hydroxamic acids: potent MMP inhibitors that spare MMP-1. Bioorg Med Chem Lett. 2004;14(13):3389-3395.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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