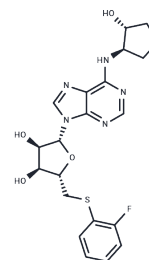


GS-9667

Chemical Properties

CAS No. : 618380-90-8
Formula: C₂₁H₂₄FN₅O₄S
Molecular Weight: 461.51
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 | GS-9667, a selective and partial agonist of the A(1) adenosine receptor (AR), represents an effective therapy for Type 2 diabetes (T2DM) and dyslipidemia via lowering of free fatty acids (FFA). |
| Targets(IC50) | Adenosine Receptor |
| In vivo | In the single ascending dose study, healthy, non-obese, and obese subjects received GS-9667 (30-1,800mg; oral; single dose). In the multiple, ascending dose study, healthy, obese subjects received GS-9667 (600-2,400mg QD, 1,200mg BID, or 600mg QID) for 14 days. Doses of GS-9667 \geq 300mg caused dose-dependent reductions in FFA levels that were reproducible over 14 days without evidence of desensitization or rebound. All doses were well tolerated. GS-9667 was rapidly absorbed and distributed; Steady-state concentrations were achieved within 3-5 days. The A(1) AR partial agonist GS-9667 reduced plasma FFA, exhibited linear kinetics, and was well-tolerated in healthy non-obese and obese subjects.[1] |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 55 mg/mL (119.17 mM), Sonication is recommended. ($<$ 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 2.1668 mL | 10.834 mL | 21.668 mL |
| 5 mM | 0.4334 mL | 2.1668 mL | 4.3336 mL |
| 10 mM | 0.2167 mL | 1.0834 mL | 2.1668 mL |
| 50 mM | 0.0433 mL | 0.2167 mL | 0.4334 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

Staehr PM, et al. Reduction of free fatty acids, safety, and pharmacokinetics of oral GS-9667, an A(1) adenosine receptor partial agonist. *J Clin Pharmacol.* 2013;53(4):385-392.

Yang M, et al. Adenosine A₁ receptors do not play a major role in the regulation of lipogenic gene expression in hepatocytes. *Eur J Pharmacol.* 2012;683(1-3):332-339.

Jiang Y, et al. Structural analysis, virtual screening and molecular simulation to identify potential inhibitors targeting 2'-O-ribose methyltransferase of SARS-CoV-2 coronavirus. *J Biomol Struct Dyn.* 2022;40(3):1331-1346.

Bergman RN, et al. Hypothesis: Role of Reduced Hepatic Insulin Clearance in the Pathogenesis of Type 2 Diabetes [published correction appears in *Diabetes.* 2019 Dec;68(12):2350]. *Diabetes.* 2019;68(9):1709-1716.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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