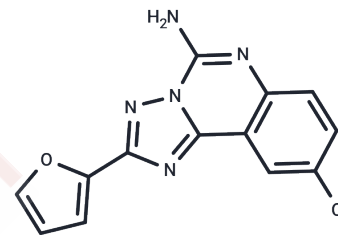


CGS 15943

Chemical Properties

CAS No. : 104615-18-1
 Formula: C₁₃H₈ClN₅O
 Molecular Weight: 285.69
 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 | CGS 15943 is an orally bioavailable non-xanthine antagonist of the Adenosine Receptor. In transfected CHO cells, its K _i values for human A ₁ , A _{2A} , A _{2B} , and A ₃ Adenosine Receptors are 3.5, 4.2, 16, and 50 nM, respectively. |
| Targets(IC ₅₀) | Adenosine Receptor,PI3K |
| In vitro | CGS 15943 inhibits the kinase activity of the class IB PI3K isoform p110γ (IC ₅₀ : 1.1 μM). CGS 15943 shows slight inhibition on p110δ (IC ₅₀ : 8.47 μM). CGS 15943 (0-20 μM; 24 hours) reduces the phosphorylation of Akt at its residues Ser473 and Thr308 in HLF and Sk-Hep-1 cells. CGS 15943 (0-20 μM; 72 hours) inhibits growth of HLF and SK-Hep-1 cells, as well as HepG2 and PLC-PRF-5 cells[3]. |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 12.22 mg/mL (42.77 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 1 mg/mL (3.5 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 3.5003 mL | 17.5015 mL | 35.003 mL |
| 5 mM | 0.7001 mL | 3.5003 mL | 7.0006 mL |
| 10 mM | 0.350 mL | 1.7501 mL | 3.5003 mL |
| 50 mM | 0.070 mL | 0.350 mL | 0.7001 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

Gao Y, et al. CGS 15943, an adenosine A2 receptor antagonist, reduces cerebral ischemic injury in the Mongolian gerbil. *Life Sci.* 1994;55(3):PL61-5.

Klotz KN, et al. Adenosine receptors and their ligands. *Naunyn Schmiedeberg's Arch Pharmacol.* 2000 Nov;362(4-5):382-91.

Edling CE, et al. Caffeine and the analog CGS 15943 inhibit cancer cell growth by targeting the phosphoinositide 3-kinase/Akt pathway. *Cancer Biol Ther.* 2014 May;15(5):524-32.

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