

GSK2256294A

Chemical Properties

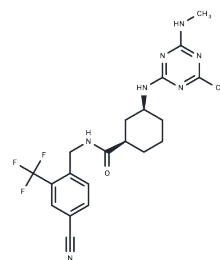
CAS No. : 1142090-23-0

Formula: C₂₁H₂₄F₃N₇O

Molecular Weight: 447.46

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 | GSK2256294A (GSK 2256294) is potent, selective inhibitor of recombinant human, rat and mouse sEH with IC ₅₀ of 27 pM, 61 pM and 189 pM, respectively. |
| Targets(IC ₅₀) | Epoxide Hydrolase |
| In vitro | GSK2256294A displays potent cellular inhibition of sEH with an IC ₅₀ of 0.66 nM in an assay developed using a cell line transfected with the human sEH enzyme[1]. |
| In vivo | Mice receiving 10 days of cigarette smoke exposure concomitant with oral administration of GSK2256294A exhibits significant, dose-dependent reductions in pulmonary leukocytes and keratinocyte chemoattractant levels. Mice receiving oral administration of G |

Solubility Information

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|---------------------|--|
| Solubility | DMSO: 4.48 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.23 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 | 2.2348 mL | 11.1742 mL | 22.3484 mL |
| 5 mM | 0.447 mL | 2.2348 mL | 4.4697 mL |
| 10 mM | 0.2235 mL | 1.1174 mL | 2.2348 mL |
| 50 mM | 0.0447 mL | 0.2235 mL | 0.447 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

Podolin PL, et al. In vitro and in vivo characterization of a novel soluble epoxide hydrolase inhibitor. Prostaglandins Other Lipid Mediat. 2013 Jul-Aug;104-105:25-31.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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