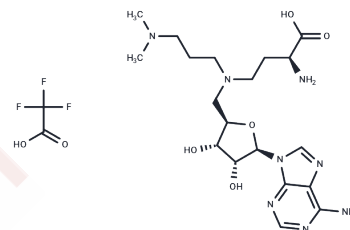


GSK2807 Trifluoroacetate

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2245255-66-5 |
| Formula: | C ₂₁ H ₃₃ F ₃ N ₈ O ₇ |
| Molecular Weight: | 566.53 |
| 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 | GSK2807 Trifluoroacetate is a selective and SAM-competitive inhibitor of SMYD3 (K _i : 14 nM; IC ₅₀ : 130 nM). |
| Targets(IC ₅₀) | Histone Methyltransferase |
| In vitro | GSK2807, a potent and selective, SAM-competitive inhibitor of SMYD3 (K _i = 14 nM). A high-resolution crystal structure reveals that GSK2807 bridges the gap between the SAM-binding pocket and the substrate lysine tunnel of SMYD3. GSK2807 is 24-fold selective for SMYD3 in comparison with the closely related enzyme SMYD2 (K _i =14±6 nM and 345±36 nM, respectively) [1]. |

Solubility Information

| | |
|---------------------|---|
| Solubility | H ₂ O: 50 mg/mL (88.26 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: 2 mg/mL (3.53 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 | 1.7651 mL | 8.8257 mL | 17.6513 mL |
| 5 mM | 0.353 mL | 1.7651 mL | 3.5303 mL |
| 10 mM | 0.1765 mL | 0.8826 mL | 1.7651 mL |
| 50 mM | 0.0353 mL | 0.1765 mL | 0.353 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

Van Aller GS, et al. Structure-Based Design of a Novel SMYD3 Inhibitor that Bridges the SAM-and MEKK2-Binding Pockets. *Structure*. 2016 May 3;24(5):774-781.

Kaniskan HÜ, et al. Inhibitors of Protein Methyltransferases and Demethylases. *Chem Rev*. 2018 Feb 14;118(3):989-1068.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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