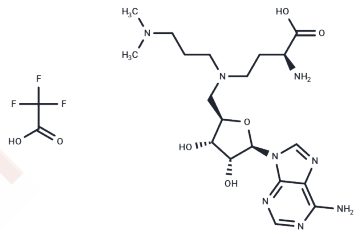
Data Sheet (Cat.No.T11486)

TargetMol

GSK2807 Trifluoroacetate

Chemical Properties



CAS No. : 2245255-66-5

Formula: C21H33F3N8O7

Molecular Weight: 566.53

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	GSK2807 Trifluoroacetate is a selective and SAM-competitive inhibitor of SMYD3 (Ki: 14 nM; IC50: 130 nM).
Targets(IC50)	Histone Methyltransferase
In vitro	GSK2807, a potent and selective, SAM-competitive inhibitor of SMYD3 (Ki = 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 (Ki=14±6 nM and 345±36 nM, respectively) [1].

Solubility Information

Solubility	H2O: 50 mg/mL (88.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

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.

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