
Product Data Sheet

Product Name: GSK2807 Trifluoroacetate

Cat. No.: GC19181

Chemical Properties

Cas. No. 2245255-66-5

SMILES NC1=C2C(N([C@H]3[C@H](O)[C@H](O)[C@@H](CN(CC[C@H](N)C(O)=O)CCCN(C)C)O3)C=N2)=NC=N1.OC(C(F)(F)F)=OFormula C₂₁H₃₃F₃N₈O₇ M.Wt 566.53

Solubility Water : ≥ 50 mg/mL (88.26 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

GSK2807 Trifluoroacetate is a potent, selective and SAM-competitive inhibitor of SMYD3, with a Ki of 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].

References:

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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