

GSK2801

Chemical Properties

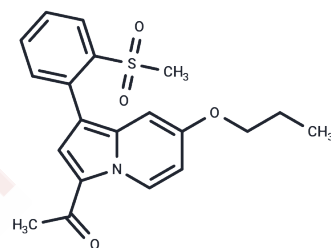
CAS No. : 1619994-68-1

Formula: C₂₀H₂₁NO₄S

Molecular Weight: 371.45

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	GSK2801 is an effective, specific and cell active acetyl-lysine competitive inhibitor of BAZ2A(Kd: 136 nM) and BAZ2B(Kd: 257 nM) bromodomains.
Targets(IC50)	Apoptosis,Epigenetic Reader Domain
In vitro	In U2OS cells transfected with mutant BAZ2A (N1873F), GSK2801 (1 μM) accelerates FRAP half-recovery time by displacing BAZ2A from chromatin. [1]
In vivo	In male CD1 mice, GSK2801 (30 mg/kg, p.o. and i.p.) has reasonable in vivo exposure after oral dosing, modest clearance, and reasonable plasma stability. [1]

Solubility Information

Solubility	DMSO: 18.6 mg/mL (50.07 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 (5.38 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	2.6922 mL	13.4608 mL	26.9215 mL
5 mM	0.5384 mL	2.6922 mL	5.3843 mL
10 mM	0.2692 mL	1.3461 mL	2.6922 mL
50 mM	0.0538 mL	0.2692 mL	0.5384 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

Chen P, et al. 2015. DOI: 10.1021/acs.jmedchem.5b00209

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