

IACS-9571

Chemical Properties

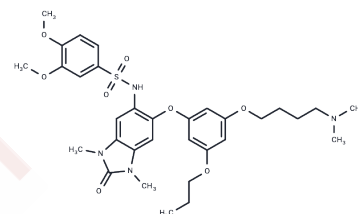
CAS No. : 1800477-30-8

Formula: C32H42N4O8S

Molecular Weight: 642.76

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	IACS-9571 is a selective and potent inhibitor of TRIM24 and BRPF1, (IC50: 8 nM for TRIM24; Kds: 31 nM and 14 nM for TRIM24 and BRPF1).
Targets(IC50)	Epigenetic Reader Domain
In vitro	IACS-9571 is a selective dual TRIM24/BRPF1 inhibitor (Kd = 1.3/2.1 nM) with 9- and 21-fold selectivity against BRPF2 and BRPF3, respectively. IACS-9571 does not interact with the BET sub-family of bromodomains, displaying greater than 7,700-fold selectivity versus BRD4(1, 2) relative to TRIM24. IACS-9571 shows excellent cellular potency with EC50 of 50 nM. IACS-9571 (1 μM) has potent activities against a panel of 32 bromodomains.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5558 mL	7.779 mL	15.5579 mL
5 mM	0.3112 mL	1.5558 mL	3.1116 mL
10 mM	0.1556 mL	0.7779 mL	1.5558 mL
50 mM	0.0311 mL	0.1556 mL	0.3112 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

Palmer WS, et al. Structure-Guided Design of IACS-9571, a Selective High-Affinity Dual TRIM24-BRPF1 Bromodomain Inhibitor. J Med Chem. 2016 Feb 25;59(4):1440-54.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481