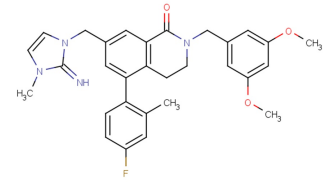


Data Sheet (Cat.No.T13334)

WDR5-IN-1

Chemical Properties

CAS No.:	2408842-51-1
Formula:	C30H31FN4O3
Molecular Weight:	514.59
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	WDR5-IN-1 is a potent and selective inhibitor of WD repeat domain 5 (WDR5) (Kd <0.02 nM), and also inhibits MLL1 histone methyltransferase (HMT) activity (IC50: 2.2 nM).
Targets(IC50)	Others: None
In vitro	In G2M phase cells, WDR5-IN-1 (1 μM; 48 hours) shows an apparent decrease. WDR5-IN-1 (0.01-3 μM; 24-48 hours) increases p53 and p21 protein levels. WDR5-IN-1 shows anti-proliferative activity in MYC-driven cancers (CHP-134, Ramos, Raji, Daudi, SW620, SW480 cells)(GI50s: 0.26-3.2 μM).

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.943 mL	9.716 mL	19.433 mL
5 mM	0.389 mL	1.943 mL	3.887 mL
10 mM	0.194 mL	0.972 mL	1.943 mL
50 mM	0.039 mL	0.194 mL	0.389 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Tian J, et al. Discovery and Structure-Based Optimization of Potent and Selective WD Repeat Domain 5 (WDR5) Inhibitors Containing a Dihydroisoquinolinone Bicyclic Core. *J Med Chem.* 2020 Jan 23;63(2):656-675.

Inhibitors · Natural Compounds · Compound Libraries

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