

WMJ-J-09

Chemical Properties

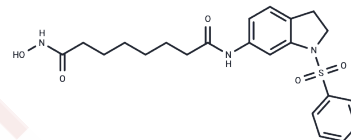
CAS No. : 2416914-29-7

Formula: C22H27N3O5S

Molecular Weight: 445.53

Storage: Store at low temperature, Keep away from moisture
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	WMJ-J-09 is a novel hydroxamate-based HDAC inhibitor that induces tumor cell apoptosis by activating the LKB1-AMPK signaling cascade and downregulating Survivin.
Targets(IC50)	HDAC
In vitro	WMJ-J-09 dose-dependently inhibits the viability of CRC and HNSCC cells, inducing G2/M arrest, apoptosis, and disrupting microtubule assembly [1][2].
In vivo	Systemic administration of WMJ-J-09 (20 mg/kg) significantly suppresses tumor growth in HCT116 and HNSCC xenograft models with a favorable safety profile [1][2].

Solubility Information

Solubility	DMSO: 200.00 mg/mL (448.90 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2445 mL	11.2226 mL	22.4452 mL
5 mM	0.4489 mL	2.2445 mL	4.489 mL
10 mM	0.2245 mL	1.1223 mL	2.2445 mL
50 mM	0.0449 mL	0.2245 mL	0.4489 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

Hanhuang Yu, et al. The hydroxamate based HDAC inhibitor WMJ-J-09 induces

Chia-Sheng Yen, et al. A Novel Hydroxamate-Based Compound WMJ-J-09 Causes Head and Neck Squamous Cell Carcinoma Cell Death via LKB1-AMPK-p38MAPK-p63-Survivin Cascade. Front Pharmacol. 2018 Mar 1. 9:167.

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