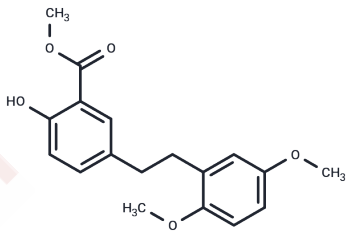
Data Sheet (Cat.No.T16866)

TargetMol

SDZ281-977

Chemical Properties



CAS No. : 150779-71-8

Formula: C18H20O5

Molecular Weight: 316.35

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	SDZ 281-977 is a derivative of Lavendustin A, an EGF receptor tyrosine kinase inhibitor.
Targets(IC50)	EGFR
In vitro	The anticancer activity of SDZ 281-977 is evaluated in nude mice with human tumor cell lines A431 (vulvar carcinoma cells), MIA PaCa-2 (pancreatic tumor cells), and MDA-MB-231 (breast carcinoma cells). The IC50 values for growth inhibition of A431, MIA PaCa-2, and MDA-MB-231 cells are 0.21 μM, 0.29 μM, and 0.43 μM, respectively [1].
In vivo	Intravenous administration of SDZ 281-977 (1-10 mg/kg) for 4 weeks in nude mice with A431 human vulvar carcinomas results in dose-dependent tumor growth inhibition. Additionally, oral administration of SDZ 281-977 (30 mg/kg) leads to a 54% inhibition of A431 tumor growth after 3 weeks of treatment [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (252.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1611 mL	15.8053 mL	31.6106 mL
5 mM	0.6322 mL	3.1611 mL	6.3221 mL
10 mM	0.3161 mL	1.5805 mL	3.1611 mL
50 mM	0.0632 mL	0.3161 mL	0.6322 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

Cammisuli S, et al. SDZ 281-977: a modified partial structure of lavendustin A that exerts potent and selective antiproliferative activities in vitro and in vivo. Int J Cancer. 1996 Jan 26;65(3):351-9.