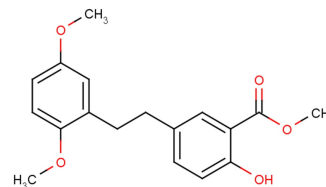


SDZ281-977

## Chemical Properties

CAS No.:	150779-71-8
Formula:	C <sub>18</sub> H <sub>20</sub> O <sub>5</sub>
Molecular Weight:	316.35
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	SDZ 281-977 is a derivative of Lavendustin A which is the EGF receptor tyrosine kinase inhibitor.
Targets(IC <sub>50</sub> )	Others: None
In vitro	The anticancer profile of SDZ 281-977 is investigated in nude mice bearing the human tumor cell lines A431 (vulvar carcinoma cells), MIA PaCa-2 (pancreatic tumor cells), and MDA-MB-231 (breast carcinoma cells). For inhibition of growth of A431, MIA PaCa-2, and MDA-MB-231 cells the IC <sub>50</sub> values are 0.21 $\mu$ M, 0.29 $\mu$ M, and 0.43 $\mu$ M, respectively [1].
In vivo	Nude mice bearing A431 human vulvar carcinomas receive intravenous injections of SDZ 281-977 (1-10 mg/kg) for 4 weeks. This treatment results in a dose-dependent inhibition of tumor growth. SDZ 281-977 (30 mg/kg, p.o.) treatment causes a 54% inhibition of A431 tumor growth after 3 weeks of treatment [1].

## 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	3.161 mL	15.805 mL	31.611 mL
5 mM	0.632 mL	3.161 mL	6.322 mL
10 mM	0.316 mL	1.581 mL	3.161 mL
50 mM	0.063 mL	0.316 mL	0.632 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

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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