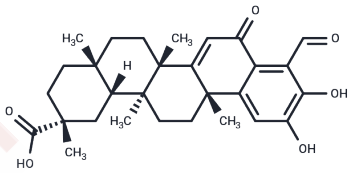
Data Sheet (Cat.No.T3418)

TargetMol

Demethylzeylasteral

Chemical Properties



CAS No. : 107316-88-1

Formula: C29H36O6

Molecular Weight: 480.59

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Demethylzeylasteral (T-96), isolated from Tripterygium wilfordii, has anti-inflammatory, immunosuppressive and anti-tumor activities. It inhibits the invasion of triple-negative breast cancer by blocking the TGF-β signaling pathway, and it can significantly reduce atherosclerosis.
Targets(IC50)	Apoptosis,UGT

Solubility Information

Solubility	DMSO: 87 mg/mL (181.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0808 mL	10.4039 mL	20.8078 mL
5 mM	0.4162 mL	2.0808 mL	4.1616 mL
10 mM	0.2081 mL	1.0404 mL	2.0808 mL
50 mM	0.0416 mL	0.2081 mL	0.4162 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.

Reference

Liu SL et al. Eur J Drug Metab Pharmacokinet. 2014 Jun;39(2):99-102.
Yang D L, Zhang Y, He L, et al. Demethylzeylasteral (T-96) Initiates Extrinsic Apoptosis Against Prostate Cancer cells by Inducing ROS-Mediated ER Stress and Suppressing Autophagic Flux. Biological Research. 2021, 54(1): 1-14.
Yang Y, Zhao M, Hu T, et al. Identification of an antitumor effect of demethylzeylasteral on human gastric cancer cells. Oncology Letters. 2021, 21(1): 1-1.
Zhao JW, et al. Molecules. 2012 Aug 8;17(8):9469-75.
Xu W, et al. Int Immunopharmacol. 2009 Jul;9(7-8):1996-12001.
Zhao Y, et al. Demethylzeylasteral inhibits cell proliferation and induces apoptosis through suppressing MCL1 in melanoma cells. Cell Death Dis. 2017 Oct 26;8(10):e3133.
Experimental study of the anti-atherosclerotic effect of demethylzeylasteral. Exp Ther Med. 2017 Jun;13(6):2787-2792.
Yang D L, Zhang Y, He L, et al. Demethylzeylasteral (T-96) Initiates Extrinsic Apoptosis Against Prostate Cancer cells by Inducing ROS-Mediated ER Stress and Suppressing Autophagic Flux[J]. 2021
Yang Y, Zhao M, Hu T, et al. Identification of an antitumor effect of demethylzeylasteral on human gastric cancer cells[J]. Oncology Letters. 21(1): 1-1.