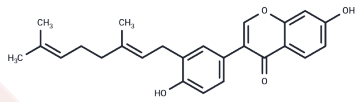
Data Sheet (Cat.No.T4S0145)

TargetMol

Corylifol A

Chemical Properties



CAS No. : 775351-88-7

Formula: C25H26O4

Molecular Weight: 390.47

Storage: Keep away from direct sunlight
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	1. Corylifol A (Corylinin) displays cytotoxic activity against HepG2 and Hep3B hepatocellular carcinoma cell lines, with IC50 values of 4.6 and 13.5 ug/ml, respectively. 2. Corylifol A and Biochanin A can be the potential uncouplers of neuronal nitric oxide synthase-postsynaptic density protein-95. 3. Corylifol A and bavachin are strong inhibitors of UDP-glucuronosyltransferase 1A1 (UGT1A1) with the inhibition kinetic parameters (Ki) values lower than 1 uM.4. Corylifol A and bakuchiol are naturally occurring potent inhibitors of hCE2, with low Ki values ranging from 0.62uM to 3.89 uM. 5. Corylifol A shows an inhibitory effect on IL-6-induced STAT3 promoter activity in Hep3B cells with IC50 values of 0.81 ± 0.15 uμ, it also inhibits STAT3 phosphorylation induced by IL-6 in Hep3B cells, suggests that corylifol A has antiinflammatory activity.
Targets(IC50)	STAT,hCE,UGT

Solubility Information

Solubility	DMSO: 117.5 mg/mL (300.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn oil: 10 mg/mL (25.61 mM),Solution. 10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (25.61 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 10 mg/mL (25.61 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 10 mg/mL (25.61 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.561 mL	12.8051 mL	25.6102 mL
5 mM	0.5122 mL	2.561 mL	5.122 mL
10 mM	0.2561 mL	1.2805 mL	2.561 mL
50 mM	0.0512 mL	0.2561 mL	0.5122 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

Li, N., Miao, J., Li, J., Zhao, Y., Li, H., & Dai, Y. et al. (2017). Enzymatic synthesis of novel corylifol A glucosides via a UDP-glycosyltransferase. Carbohydrate Research, 446-447, 61-67. doi: 10.1016/j.carres.2017.05.002
Chen J, Zhou X, Fu L, et al.Natural Product-Based Screening for Lead Compounds Targeting SARS CoV-2 Mpro[J]. Pharmaceuticals, 2023, 16(5): 767..Pharmaceuticals.2023, 16(5): 767.