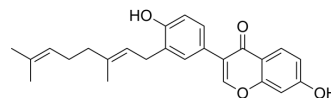


Corylifol A

Cat. No.:	HY-N0897		
CAS No.:	775351-88-7		
Molecular Formula:	C ₂₅ H ₂₆ O ₄		
Molecular Weight:	390.47		
Target:	STAT; UGT		
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (640.25 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.5610 mL	12.8051 mL	25.6102 mL
	5 mM	0.5122 mL	2.5610 mL	5.1220 mL
	10 mM	0.2561 mL	1.2805 mL	2.5610 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.33 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Corylifol A inhibits IL-6-induced STAT3 activation and phosphorylation, with an IC ₅₀ of 0.81 μM.
IC₅₀ & Target	STAT3 0.81 μM (IC ₅₀)
In Vitro	Corylifol A shows an inhibitory effect on IL-6-induced STAT3 promoter activity in Hep3B cells with IC ₅₀ value of 0.81±0.15 μM, also inhibits STAT3 phosphorylation induced by IL-6 in Hep3B cells ^[1] . Corylifol A inhibits SARA PLpro in a dose-dependent

manner with IC₅₀s ranging between 4.2 and 38.4 μM^[2]. Corylifol A is found to be a naturally occurring potent inhibitor of hCE2, with low K_i values ranging from 0.62 μM to 3.89 μM^[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Acta Pharm Sin B. 2021 Jan;11(1):143-155.
- Toxicol Lett. 2023 Aug 18;S0378-4274(23)00244-8.

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REFERENCES

- [1]. Lee SW, et al. Phenolic compounds isolated from *Psoralea corylifolia* inhibit IL-6-induced STAT3 activation. *Planta Med.* 2012 Jun;78(9):903-6.
- [2]. Kim DW, et al. Phenolic phytochemical displaying SARS-CoV papain-like protease inhibition from the seeds of *Psoralea corylifolia*. *J Enzyme Inhib Med Chem.* 2014 Feb;29(1):59-63.
- [3]. Li YG, et al. Fructus *Psoraleae* contains natural compounds with potent inhibitory effects towards human carboxylesterase 2. *Fitoterapia.* 2015 Jan 13;101C:99-106. d
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Caution: Product has not been fully validated for medical applications. For research use only.

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