Salvianolic acid C

Cat. No.:	HY-N0319	
CAS No.:	115841-09-3	
Molecular Formula:	C ₂₆ H ₂₀ O ₁₀	ОН ОН
Molecular Weight:	492.43	но но он
Target:	Cytochrome P450	
Pathway:	Metabolic Enzyme/Protease	он
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.0307 mL	10.1537 mL	20.3075 mL		
		5 mM	0.4061 mL	2.0307 mL	4.0615 mL		
		10 mM	0.2031 mL	1.0154 mL	2.0307 mL		
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					
n Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.08 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.08 mM); Clear solution					

BIOLOGICAL ACTIVITY					
Description	Salvianolic acid C is a noncompetitive Cytochrome P4502C8 (CYP2C8) inhibitor and a moderate mixed inhibitor of Cytochrome P45022J2 (CYP2J2), with K _i s of 4.82 μM and 5.75 μM for CYP2C8 and CYP2J2, respectively.				
IC ₅₀ & Target	CYP2C8 4.82 μΜ (Ki)	CYP2J2 5.75 μΜ (Ki)			
In Vitro	Salvianolic acid C is a noncompetitive CYP2C8 inhibitor and a moderate mixed inhibitor of CYP2J2, with K _i s of 4.82, 5.75 μM for CYP2C8 and CYP2J2, respectively ^[1] . 1 and 5 μM Salvianolic acid C (SalC) could significantly inhibit the NO production induced by LPS. Salvianolic acid C decreases the expression of iNOS significantly. Salvianolic acid C inhibits LPS-induced TNF-α, IL-1β, IL-6 and IL-10 overproduction. Salvianolic acid C inhibits LPS-induced NF κB activation. Salvianolic acid C also increases the expression of Nrf2 and HO-1 in BV2 microglial cells ^[2] .				



MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Salvianolic acid C (20 mg/kg) treatment could significantly decrease the escape latency. In addition, SalC (10 and 20 mg/kg) treatment significantly increase the platform crossing number compared with the LPS model group. Systemic administration of Salvianolic acid C down regulates the brain TNF- α , IL-1 β and IL-6 levels compared with the model group. The iNOS and COX-2 levels in rat brain cortex and hippocampus are higher than that in the control group, while Salvianolic acid C treatment significantly down regulates the cortex and hippocampus regions. Salvianolic acid C (5, 10 and 20 mg/kg) treatment dose-dependently increases the p-AMPK, Nrf2, HO-1 and NQO1 levels in rat brain cortex and hippocampus^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Pharmaceuticals. 2022, 15(12), 1444
- Int J Rheum Dis. 2023 Jun 15.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Xu MJ, et al. Inhibitory Effects of Danshen components on CYP2C8 and CYP2J2. Chem Biol Interact. 2018 Jun 1;289:15-22.

[2]. Song J, et al. Activation of Nrf2 signaling by salvianolic acid C attenuates NFX kB mediated inflammatory response both in vivo and in vitro. Int Immunopharmacol. 2018 Oct;63:299-310.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA