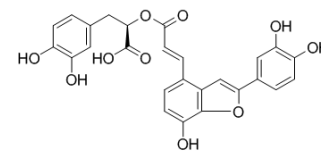


Salvianolic acid C

Cat. No.:	HY-N0319
CAS No.:	115841-09-3
Molecular Formula:	C ₂₆ H ₂₀ O ₁₀
Molecular Weight:	492.43
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
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)



BIOLOGICAL ACTIVITY

Description	Salvianolic acid C is a noncompetitive Cytochrome P450C8 (CYP2C8) inhibitor and a moderate mixed inhibitor of Cytochrome P4502J2 (CYP2J2), with K _i s of 4.82 μM and 5.75 μM for CYP2C8 and CYP2J2, respectively.	
IC₅₀ & Target	CYP2C8 4.82 μM (K _i)	CYP2J2 5.75 μM (K _i)
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] .	
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-1β 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] .	

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 NF-κB 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