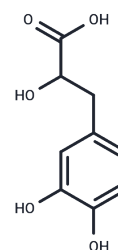


(Rac)-Salvianic acid A

Chemical Properties

CAS No. :	23028-17-3
Formula:	C ₉ H ₁₀ O ₅
Molecular Weight:	198.17
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	(Rac)-Salvianic acid A is the racemic form of Salvianic acid A, an orally active phenolic compound. (Rac)-Salvianic acid A activates the Nrf2/HO-1 signaling pathway while inhibiting the NF-κB pathway, exhibiting potential for antioxidant, anti-apoptotic, and anti-pulmonary inflammatory effects. (Rac)-Salvianic acid A is suitable for research in COVID-19, cardiovascular, and cerebrovascular diseases.
Targets(IC50)	NF-κB,Nrf2,ROS
In vitro	(Rac)-Salvianic acid A (6-36 μM, 24 hours) exhibited a dose-dependent inhibitory effect on LPS-induced decrease in vascular endothelial cell activity [2]. (Rac)-Salvianic acid A (10 or 20 μM, 24 hours) could inhibit lipopolysaccharide (HY-D1056)-induced apoptosis of vascular endothelial cells, and its mechanism of action was achieved by regulating glutathione peroxidase activity and malondialdehyde levels [2].
In vivo	In a high-fat diet-induced atherosclerosis (AS) rat model, (Rac)-Salvianic acid A (3 mg/kg or 10 mg/kg, orally administered once daily for 6 consecutive weeks) inhibited inflammatory responses and oxidative stress, demonstrating protective effects against atherosclerosis [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0462 mL	25.2309 mL	50.4617 mL
5 mM	1.0092 mL	5.0462 mL	10.0923 mL
10 mM	0.5046 mL	2.5231 mL	5.0462 mL
50 mM	0.1009 mL	0.5046 mL	1.0092 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

Zhao QT, et al. Salvianic acid A inhibits lipopolysaccharide-induced apoptosis through regulating glutathione peroxidase activity and malondialdehyde level in vascular endothelial cells. *Chin J Nat Med.* 2012 Jan;10(1):53-7.
Jia D, et al. Salvianic acid A sodium protects HUVEC cells against tert-butyl hydroperoxide induced oxidative injury via mitochondria-dependent pathway. *Chem Biol Interact.* 2018 Jan 5;279:234-242.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481