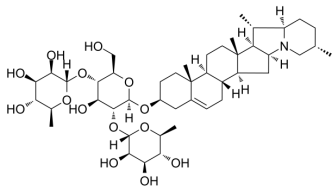
α-Chaconine

Cat. No.:	HY-129113
CAS No.:	20562-03-2
Molecular Formula:	$C_{45}H_{73}NO_{14}$
Molecular Weight:	852.06
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	α-Chaconine inhibits the expressions of COX-2, IL-1β, IL-6, and TNF-α at the transcriptional level. α-Chaconine inhibits the LPS-induced expressions of iNOS and COX-2 at the protein and mRNA levels and their promoter activities in RAW 264.7 macrophages. Anti-inflammatory effects[1].
IC_{50} & Target	COX-2
In Vitro	α-Chaconine attenuates the transcriptional activity of activator protein-1 (AP-1) by reducing the translocation and phosphorylation of c-Jun.α-Chaconine suppresses lipopolysaccharide-induced pro-inflammatory mediators via AP-1 inactivation in RAW 264.7 macrophages and protects mice from endotoxin shock.α-Chaconine also suppresses the phosphorylation of TGF-β-activated kinase-1 (TAK1), which lies upstream of MKK7/JNK signaling[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lee KG, et al. α-Chaconine isolated from a Solanum tuberosum L. cv Jayoung suppresses lipopolysaccharide-induced pro-inflammatory mediators via AP-1 inactivation in RAW 264.7 macrophages and protects mice from endotoxin shock. Chem Biol Interact. 2015 Jun 25;235:85-94.

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