

Product Name : Demethyleneberberine

Synonyms : —

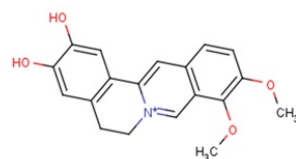
Cat No. : M18314

CAS Number : 25459-91-0

Molecular Formula : C₁₉H₁₈NO₄⁺

Formula Weight : 324.35

Chemical Name : —



Description : Demethyleneberberine, which is composed of a potential antioxidant structure, could penetrate the membrane of mitochondria and accumulate in mitochondria either in vitro or in vivo. Demethyleneberberine suppresses CYP2E1, hypoxia inducible factor α , and inducible nitric oxide synthase, which contributes to oxidative stress and restored sirtuin 1/AMP-activated protein kinase/peroxisome proliferator-activated receptor- γ coactivator-1 α pathway-associated fatty acid oxidation in chronic ethanol-fed mice.

Pathway : Cytoskeleton/Cell Adhesion Molecules

Target : Akt

Receptor : CYP17;HIF;NOS

Solubility : —

SMILES : Oc1cc2c3cc4ccc(OC)c(OC)c4c[n+]3CCc2cc1O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Zhang P1,et al.J Pharmacol Exp Ther. 2015 Jan;352(1):139-47.