

Product Name : Hirsutanonol

Synonyms : —

Cat No. : M29305

CAS Number : 41137-86-4

Molecular Formula : C₁₉H₂₂O₆

Formula Weight : 346.4

Chemical Name : —

Description

Hirsutanonol is a secondary metabolite from the bark of *Alnus glutinosa*. Hirsutanonol has potent antioxidant and free radical scavenging activities and exhibits an inhibition effect on mitochondrial lipid peroxidation. Hirsutanonol can be used for studies(In Vitro):Hirsutanonol shows significant inhibitory effects on 12-O-tetradecanoylphorbol-13-acetate (TPA)-induced cyclooxygenase-2 (COX-2) expression in immortalized human breast epithelial MCF10A cells. Hirustenone and hirsutanonol show promising anti-filarial activity both in vitro and in vivo studies.Hirsutanonol shows potent cytotoxic activities against murine B16 melanoma cells and human SNU-C1 gastric cancer cells, it also has a chemoprotective effect on human lymphocyte DNA. Hirsutanonol (1 µg/mL) decreased the frequency of micronuclei by 63.6 %, exerting a much stronger effect than the synthetic protector amifostine (17.2 %, 1 µg/mL).

Pathway : Chromatin/Epigenetic

Target : COX

Receptor : COX

Solubility : —

SMILES : O[C@@H](CCc1ccc(O)c(O)c1)CC(=O)CCc1ccc(O)c(O)c1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :