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DATASHEET

Asiaticoside

Product overview

Name Asiaticoside Cat No HB3772 **Purity** >95%

Description Suppresses collagen expression

Biological Data

Biological description

Antibacterial. Human collagen I synthesis inducer. Anti-wrinkle activity. Shows wound healing activity. Enhances normal human skin cell migration, attachment and growth. Suppresses collagen expression and TGF-beta/Smad signaling by inducing Smad7 and inhibiting TGF-betaRI and TGF-betaRII. Antiinflammatory. Anti-gastric ulcer. Mitogen-activated protein kinases (MAPKs), nuclear factor-kappaB (NF-kappaB), cyclooxygenase-2 (COX-2) and inducible nitric oxide synthase (iNOS; NOSII) expression, production of serum tumor necrosis factor (TNF-alpha) and interleukin-6 (IL-6) inhibitor. Apoptosis inducer in cancer cells. Enhances antitumor activity of vincristine in cancer cells. Might be useful in cancer chemotherapy. Anxiolytic. Antidepressant-like activity. Hepatoprotective effects. CYP2C19 and CYP3A4 inhibitor. Neuroprotective. Antileishmanial activity. cPLA2 and sPLA2 inhibitor.

Solubility & Handling

Storage instructions

Important

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight Chemical structure

16830-15-2

CAS Number PubChem identifier

SMILES

C[C@@H] 1 CC[C@@] 2 (CC[C@] 3 (C)C (= CCC4[C@@] 5 (C)C[C@@H] (O)[C@@H] (O)[C@WH] (O)[C@@H] (O)[C@WH] (O)[CWWH] (O)

(O)C7O)C(O)C(O)C6O

WYQVAPGDARQUBT-NXDSUYQXBS InChiKey

Appearance White solid