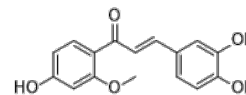


Product Name : Sappanchalcone
Cat. No. : PC-27328
CAS No. : 94344-54-4
Molecular Formula : C₁₆H₁₄O₅
Molecular Weight : 286.28
Target : Dipeptidyl Peptidase (DPP)
Solubility : 10 mM in DMSO



Biological Activity

Sappanchalcone is a flavonoid isolated from *Caesalpinia sappan* L, a potent low-toxicity Fibroblast activation protein α (FAP α) inhibitor with SPR KD of 3.88 μ M.

Sappanchalcone not only inhibits FAP α enzymatic activity but also effectively downregulates its protein expression under fibrotic conditions.

Sappanchalcone displays inhibition of LX -2 cell proliferation, effectively inhibits the migration and invasion of activated hepatic stellate cells (aHSCs), demonstrating excellent anti -fibrotic potential.

Sappanchalcone suppresses hepatic stellate cell activation through inhibition of the FAP α -PI3K-AKT signaling pathway.

Sappanchalcone markedly attenuates fibrosis progression and improves liver function in multiple liver fibrosis models using male mice.

Sappanchalcone demonstrates significant upregulation of α -SMA and FAP α proteins in the BDL model, both of which are effectively downregulated by Sappanchalcone.

References

Wenze Zhang, et al. Nature Communications (2026)

Seo HW, et al. Chem Biol Interact. 2020;327:109185.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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