

Product Data Sheet

Product Name: Hecogenin

Cat. No.: GC41491

Chemical Properties

Cas. No. 467-55-0

SMILES O=C1[C@@]2(C)[C@](C[C@@]3([H])[C@]2([H])[C@H](C)[C@]4(OC[C@H](C)CC4)O3)([H])[C@]5([H])CC[C@@]6([H])C[C@@H](O)CC[C@]6(C)[C@@]5([H])C1

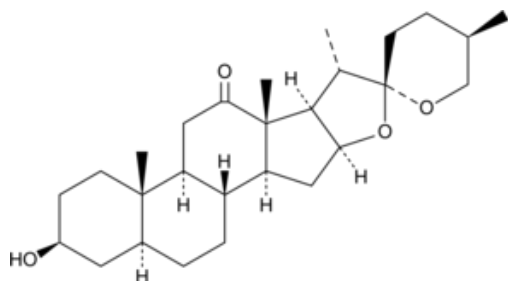
Formula C₂₇H₄₂O₄ M.Wt 430.6

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:2): 0.3 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Hecogenin is a natural steroid sapogenin with diverse biological activities that was originally isolated from *A. sisalana* and has been used in the synthesis of steroids. It has antioxidant, anti-inflammatory, antiproliferative, and neuroprotective properties. Hecogenin (10 µM) decreases superoxide anion formation induced by N-Formyl-Met-Leu-Phe in rat neutrophils by 23.6%. It also inhibits myeloperoxidase (MPO) release from human neutrophils activated by phorbol 12-myristate 13-acetate when used at a concentration of 1 µg/ml. Hecogenin inhibits proliferation of the breast cancer cell lines MDA-MB-231, MDA-MB-468, MCF-10A, MCF-7, T47D, BT474, and SK-BR-3 (IC₅₀s =

Caution: Product has not been fully validated for medical applications. For research use only.

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28.7-38.2 μ M). It decreases the number of glutamate-induced TUNEL-positive primary rat spinal motor neurons by 11% when used at a concentration of 1 μ M. In vivo, hecogenin (15 mg/kg) decreases the mucosal lesion area of ethanol-induced gastric ulceration in mice. It also decreases tumor volume in an MDA-MB-231 human breast cancer mouse xenograft model when administered at a dose of 10 mg/kg three times per week.

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