

Product Data Sheet

Product Name: Actein
Cat. No.: GC35242

Chemical Properties

Cas. No. 18642-44-9

SMILES C[C@]12[C@@]3([H])[C@@]4(C[C@@H](OC(C)=O)[C@@]1([C@]5([H])[C@](O[C@]6([C@H]7[C@]([C@@H](O)O6)(C)O7)C[C@H]5C)([H])C2)C)[C@@]8([C@@](C(C)([C@@H](O[C@@]9([H])[C@@H]([C@H]([C@H](O)CO9)O)O)CC8)C)([H])CC3)C4

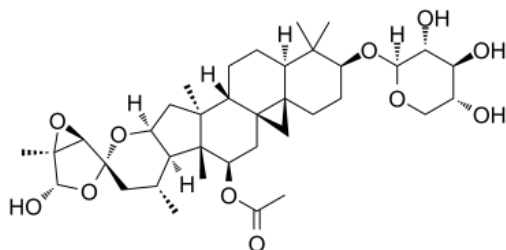
Formula C₃₇H₅₆O₁₁ M.Wt 676.83

Solubility Soluble in DMSO Storage 4°C, protect from light

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

Actein is a triterpene glycoside isolated from the rhizomes of *Cimicifuga foetida*. Actein suppresses cell proliferation, induces autophagy and apoptosis through promoting ROS/JNK activation, and blunting AKT pathway in human bladder cancer. Actein has little toxicity in vivo [1][2].

[1]. Yang ZC, et al. Actein enhances TRAIL effects on suppressing gastric cancer progression by

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

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activating p53/Caspase-3 signaling. Biochem Biophys Res Commun. 2018 Mar 18;497(4):1177-1183.
[2]. Ji L, et al. Actein induces autophagy and apoptosis in human bladder cancer by potentiating ROS/JNK and inhibiting AKT pathways. Oncotarget. 2017 Nov 1;8(68):112498-112515.

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