
Product Data Sheet

Product Name: 15-acetoxy Scirpenol

Cat. No.: GC11988

Chemical Properties

Cas. No. 2623-22-5

Chemical Name 12,13-epoxy-trichothec-9-ene-3 α ,4 β ,15-triol, 15-acetate

SMILES CC1=C[C@]2([H])[C@]([C@]([C@H](O)[C@H]3O)(C)[C@@]4(OC4)[C@]3([H])O2)(COC(C)=O)CC1

Formula C₁₇H₂₄O₆ M.Wt 324.4

Solubility \leq 10mg/ml in methanol;10mg/ml in dichloromethane 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

15-acetoxy Scirpenol is a trichothecene mycotoxin which is produced predominantly by members of the Fusarium genus [1]. 15-acetoxy Scirpenol could induce apoptotic cell death in human Jurkat T cells. Mycotoxins of scirpenol belong to the trichothecene family which is mainly produced by the fungal species of the genus Fusarium. Acetylated scirpenol has very high toxicities in animals and humans. 15-acetoxy Scirpenol exhibited cytotoxicity at a lower concentration (25 ng/ml). The 50% inhibitory concentration (IC₅₀) values of 15-acetoxy Scirpenol was 16.1 ng/ml [2]. In the Jurkat T cells treated with 50 ng/ml of 15-acetoxyscirpenol (15-MAS), the populations of externalized PS-positive and PI-negative cells were 32.0% [2].

References:

[1] Peraica M, Radic B, Lucic A, et al. Toxic effects of mycotoxins in humans[J]. Bulletin of the World Health Organization, 1999, 77(9): 754-766.

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

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[2] Lee D H, Park T, Kim H W. Induction of apoptosis by disturbing mitochondrial-membrane potential and cleaving PARP in Jurkat T cells through treatment with acetoxyscirpenol mycotoxins[J]. Biological and Pharmaceutical Bulletin, 2006, 29(4): 648-654.

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