
Product Data Sheet

Product Name: 5-Dehydroepisterol

Cat. No.: GC39589

Chemical Properties

Cas. No. 23582-83-4

SMILES C=C(C(C)C)CC[C@@H](C)[C@H]1CC[C@@]2([H])C3=CC=C4C[C@@H](O)CC[C@]4(C)[C@@]3([H])CC[C@]12C

Formula C₂₈H₄₄O

M.Wt 396.65

Solubility DMSO : 1 mg/mL (2.52 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C, protect from light, stored under nitrogen

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**

5-Dehydroepisterol is an episterol derivative and an intermediate in steroid biosynthesis. 5-Dehydroepisterol can be formed by C-5 sterol desaturase and converted into 24-methylenecholesterol by 7-dehydrocholesterol reductase. 5-Dehydroepisterol has anti-fungal activities[1][2].

[1]. 5-Dehydroepisterol. From Wikipedia [2]. Rodrigues JC, et al. Ultrastructural and biochemical alterations induced by 22,26-azasterol, a delta(24(25))-sterol methyltransferase inhibitor, on promastigote and amastigote forms of *Leishmania amazonensis*. *Antimicrob Agents Chemother.* 2002 Feb;46(2):487-99.

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

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