

24,25-Dihydrolanosterol

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 911660-54-3 |
| Formula: | C ₃₀ H ₅₂ O |
| Molecular Weight: | 428.73 |
| Storage: | Keep away from direct sunlight, Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |

Biological Description

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| Description | 24,25-Dihydrolanosterol (Lanostenol) is a chemical compound found in the seeds of the red pepper (<i>Capsicum annuum</i>). 24,25-Dihydrolanosterol (Lanostenol) is therefore utilized in phytosterol and lipidomics research for structural characterization of sterol derivatives in <i>Capsicum annuum</i> seed metabolite profiling systems. 24,25-Dihydrolanosterol (Lanostenol) is also applied in biochemical membrane studies investigating sterol incorporation and lipid bilayer composition in model membrane systems. |
| Targets(IC50) | Others |

Solubility Information

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| Solubility | DMSO: 1 mg/mL (2.33 mM),Sonication is recommended. DMF: 4 mg/mL (9.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.3325 mL | 11.6624 mL | 23.3247 mL |
| 5 mM | 0.4665 mL | 2.3325 mL | 4.6649 mL |
| 10 mM | 0.2332 mL | 1.1662 mL | 2.3325 mL |
| 50 mM | 0.0466 mL | 0.2332 mL | 0.4665 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Toshihiro Itoh, et al. Occurrence of lanosterol and lanostenol in seeds of red pepper (*Capsicum annuum*).
Steroids. 1977. 29(5): 569-577.

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