Diosgenin
Item No. 19847

CAS Registry No.: 512-04-9
Formal Name: (3β,25R)-spirost-5-en-3-ol
Synonyms: Nitogenin, NSC 33396, 3β-hydroxy-5-Spirostene
MF: C_{27}H_{42}O_{3}
FW: 414.6
Purity: ≥98%
Supplied as: A crystalline solid
Storage: Room temperature
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

Diosgenin is supplied as a crystalline solid. A stock solution may be made by dissolving the diosgenin in the solvent of choice. Diosgenin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of diosgenin in these solvents is approximately 30 mg/ml.

Diosgenin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, diosgenin should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Diosgenin has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Diosgenin is a natural steroid sapogenin that has diverse biochemical and physiological actions. It has antioxidant and anti-inflammatory activities, is protective against metabolic and cardiovascular diseases, and can have immunomodulatory and estrogenic effects.1-4

References