**PRODUCT INFORMATION**

**β-Amyrin**

*Item No. 20949*

**CAS Registry No.:** 559-70-6  
**Formal Name:** (3β)-olean-12-en-3-ol  
**Synonyms:** (+)-β-Amyrin, NSC 527971, Olean-12-en-3β-ol  
**MF:** C30H50O  
**FW:** 426.7  
**Purity:** ≥95%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

### Laboratory Procedures

β-Amyrin is supplied as a crystalline solid. A stock solution may be made by dissolving the β-amyrin in the solvent of choice. β-Amyrin is soluble in organic solvents such as ethanol and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of β-amyrin in these solvents is approximately 1 and 3 mg/ml, respectively.

β-Amyrin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, β-amyrin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. β-Amyrin has a solubility of approximately 0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

β-Amyrin is a natural pentacyclic triterpenoid commonly found in plants. It is a member of the oleanane group of secondary metabolites biosynthesized from squalene in the triterpenoid pathway. β-Amyrin inhibits collagen-induced platelet aggregation (IC50 = 10.5 µM), inhibits acetylcholinesterase (IC50 = 165 µM), and has antifungal and hepatoprotective effects.1-4 Extracts of certain plants, used in herbal medicine to treat inflammation, have been shown to contain β-amyrin, suggesting that this compound contributes to anti-inflammatory actions.5

### References