Betulinic acid

Synonyms: (+)-Betulinic acid, Betulic acid, Lupatic acid, NSC 113090, β-Betulinic acid

Specifications

- CAS #: 472-15-1
- Molecular Formula: C30H48O3
- Molecular Weight: 456.7
- Source: Akania bidwillii
- Appearance: White solid
- Purity: >95% by HPLC
- Long Term Storage: -20°C
- Solubility: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Betulinic acid is a pentacyclic lupane terpene, first published in 1917. Betulinic acid is isolated as a constituent of various tree species, including birch. Betulinic acid has antiviral, antibacterial, antimalarial, antiinflammatory, anthelmintic and antinociceptive properties. Betulinic acid induces apoptosis via caspase activation and also disrupts the mitochondrial membrane, induces DNA fragmentation and suppresses aerobic glycolysis via interaction with Cav-1. Derivatives of betulinic acid are active against bacterial biofilms.

References