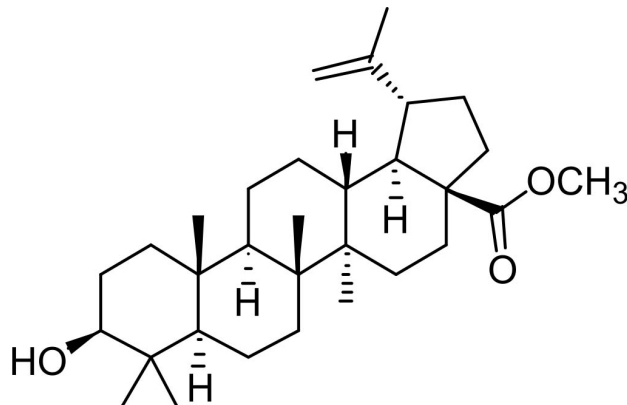


betulinate, Methyl

Code No.: BIA-M1757

Pack sizes.: 1mg, 5mg



Synonyms:

Betulinic acid methyl ester, Mairin methyl ester, Methyl betulate, NSC 152532

Specifications

CAS #	: 5/06/2259
Molecular Formula	: C31H50O3
Molecular Weight	: 470.74
Source	: -
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Methyl betulinate is the methyl ester of betulinic acid, a pentacyclic lupane terpene isolated as a constituent of various tree species, including birch. In Australia, methyl betulinate was isolated from *Akania bidwillii* (syn. *Akania lucens*) by Ritchie and Taylor, University of Sydney in the late 1960s. More recently, methyl betulinate has been reported to be active in a number of bioassays, in particular against the malaria parasite, *Plasmodium falciparum*, and against human melanoma cell lines.

References

1. Some constituents of *Akania lucens*. Krajniak E. et al., *Aust. J. Chem.*, 1969, 22, 1331.
2. Erythrocyte membrane modifying agents and the inhibition of *Plasmodium falciparum* growth: structure-activity relationships for betulinic acid analogues. Ziegler H.L. et al., *Bioorg. Med. Chem.* 2004, 12, 119.
3. The potential of triterpenoids in the treatment of melanoma. Sarek J. et al., in *Research on melanoma - A glimpse into current directions and future trends* 2011. DOI: 10.5772/19582