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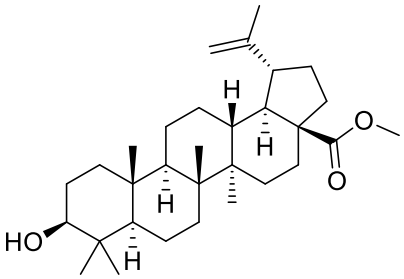
PRODUCT DATA SHEET

Methyl betulinate

Code No.: **BIA-M1757**

Pack sizes: **1 mg, 5 mg**



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

Specifications

CAS #	:	**2259-06-5**
Molecular Formula	:	**$C_{31}H_{50}O_3$**
Molecular Weight	:	**470.7**
Source	:	***Akania bidwillii***
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, 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

For in vitro laboratory use only. Not for human or animal use.

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