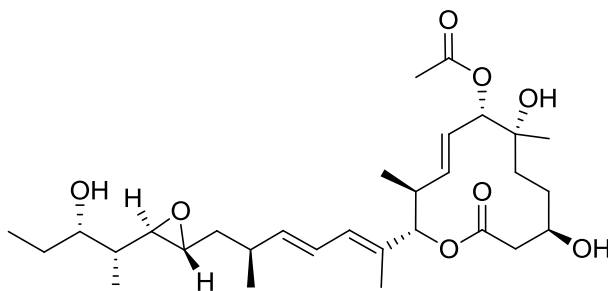


Pladienolide B

Code No.: **BIA-P1411**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms :

Specifications

CAS #	: 445493-23-2
Molecular Formula	: C ₃₀ H ₄₈ O ₈
Molecular Weight	: 536.7
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Pladienolide B is the major analogue of a family of macrocyclic lactones isolated from *Streptomyces platensis* by researchers at Eisai Corp. Japan in 2004. Pladienolide B is a highly potent inhibitor of both hypoxia induced VEGF expression and cancer cell proliferation. Pladienolide B binds to SF3b complex blocking the spliceosome and is an important bioprobe for our understanding of the spliceosome, a highly selective target for next generation antitumor agents.

References

1. Pladienolides, new substances from culture of *Streptomyces platensis* Mer-11107. III. In vitro and in vivo antitumor activities. Mizui Y. J. Antibiot. 2004, 57, 188.
2. Splicing factor SF3b as a target of the antitumor natural product pladienolide. Kotake Y. et al., Nature Chemical Biology 2007, 3, 570.