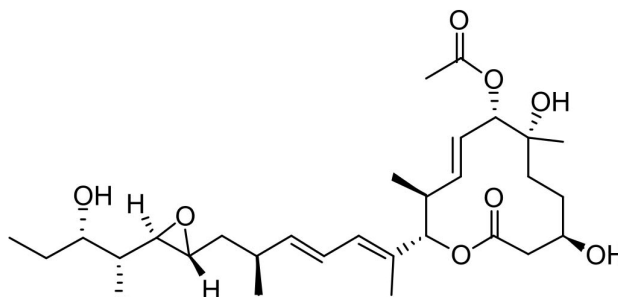


## Pladienolide B

Code No.: BIA-P1411

Pack sizes.: 0.1mg, 0.5mg



Synonyms:

-

## Specifications

CAS #	: <b>445493-23-2</b>
Molecular Formula	: <b>C30H48O8</b>
Molecular Weight	: <b>536.7</b>
Source	: -
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</b>

## 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.