

PRODUCT DATA SHEET

Code No.: BIA-R1078

Pack sizes.: 0.25mg, 1mg

Reveromycin A

Synonyms:

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Specifications

CAS # : **134615-37-5**Molecular Formula : **C36H52O11**

Molecular Weight : 660.8

Source :-

Appearance : Tan Lyophilisate
Purity : >99% by HPLC

Long Term Storage : -20°C

Solubility : Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Reveromycin A, the dominant analogue of a complex of spiroketals isolated from a Streptomyces sp., is an inhibitor of the mitogenic activity of EGF. Reveromycin A is a G1 phase cell cycle inhibitor, selectively inhibiting isoleucyltRNA synthetase. Reveromycin A displays antiproliferative behaviour against human cell lines KB and K562, as well as potent antifungal activity. More recently it has been shown to induce apoptosis in osteoclasts thus inhibiting bone resorption.

References

- 1. Reveromycin A, an agent for osteoporosis, inhibits bone resorption by inducing apoptosis specifically in osteoclasts. Woo J.T. et al., Proc Natl Acad Sci USA. 2006, 103, 4729.
- 2. Reveromycin A inhibits osteolytic bone metastasis of small-cell lung cancer cells, SBC-5, through an antiosteoclastic activity. Muguruma H. et al., Clin Cancer Res. 2005, 11, 8822.
- 3. Identification of Saccharomyces cerevisiae isoleucyl-tRNA synthetase as a target of the G1-specific inhibitor Reveromycin A. Miyamoto Y., et al., J. Biol. Chem., 2002, 277, 28810.