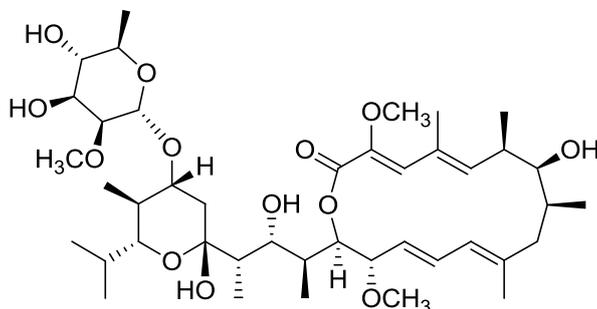


## Leucanicidin

Code No.: **BIA-L1369**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

### Specifications

CAS #	: 91021-66-8
Molecular Formula	: C <sub>42</sub> H <sub>70</sub> O <sub>13</sub>
Molecular Weight	: 783.0
Source	: <i>Streptomyces</i> sp.
Appearance	: White to off white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility. NOTE: forms methyl ketal on long term storage in methanol.

### Application Notes

Leucanicidin is a potent nematocide and insecticide belonging to the bafilomycin class. Lack of access to the pure metabolite has limited its investigation, however structural differences between leucanicidin and the bafilomycins offer scope for investigations into the use of V-ATPases as therapeutic targets.

### References

1. The structure of leucanicidin, a novel insecticidal macrolide produced by *Streptomyces halstedii*. Isogai A. et al. *Ag. Biol. Chem.* 1984, 48, 1379.
2. Structure and function of V-ATPases in osteoclasts: potential therapeutic targets for the treatment of osteolysis. Xu J. et al. *Histol. Histopathol.* 2007, 22, 443.

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