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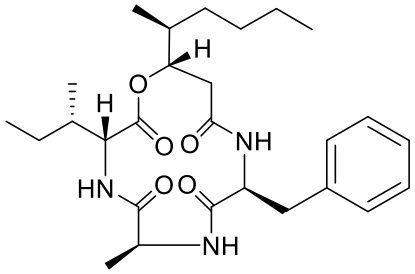
PRODUCT DATA SHEET

Beauveriolide III

Code No.: **BIA-B2295**

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



Synonyms : FO 6979

Specifications

CAS #	:	**221111-70-2**
Molecular Formula	:	**$C_{27}H_{41}N_3O_5$**
Molecular Weight	:	**487.6**
Source	:	***Beauveria bassiana***
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol or DMSO.**

Application Notes

Beauveriolides are 13-membered cyclodepsipeptides isolated from Beauveria sp. Beauveriolide III inhibits acyl-CoA:cholesterol acyltransferase (ACAT) to block the synthesis of cholesteryl ester, leading to a reduction of lipid droplets in macrophages. Beauverolide III is more potent against ACAT1 than ACAT2 (IC50 5.5 vs. > 20 μM, respectively). Beauveriolide III is antiatherogenic activity in mouse models.

References

1. Absolute stereochemistry of fungal beauveriolide III and ACAT inhibitory activity of four stereoisomers. Ohshiro T. et al. J Org Chem. 2006, 71, 7643.
2. Discovery and combinatorial synthesis of fungal metabolites beauveriolides, novel antiatherosclerotic agents. Tomoda H. and Doi T. Acc Chem Res 2008, 41, 32.
3. The selectivity of beauveriolide derivatives in inhibition toward the two isozymes of acyl-CoA : cholesterol acyltransferase. Oshiro T. et al. Chem Pharm Bull. 2009, 57, 377.

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

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