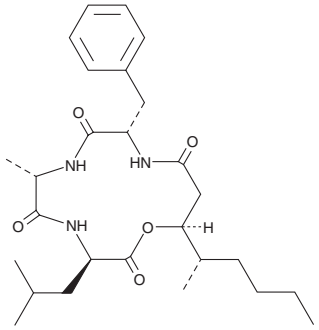
PRODUCT INFORMATION

Beauveriolide I

Item No. 31774

CAS Registry No.:	154491-55-1
Formal Name:	cyclo[L-alanyl-D-leucyl-(3S,4S)-3-hydroxy-4-methyloctanoyl-L-phenylalanyl]
MF:	$C_{27}H_{41}N_3O_5$
FW:	487.6
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Fungus/*Beauveria bassiana*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Beauveriolide I is supplied as a solid. A stock solution may be made by dissolving the beauveriolide I in the solvent of choice, which should be purged with an inert gas. Beauveriolide I is soluble in DMSO.

Description

Beauveriolide I is a cyclodepsipeptide that has been found in *Beauveria* and an inhibitor of lipid droplet formation.[1] It inhibits lipid droplet formation when used at concentrations of 3 and 10 µM, as well as inhibits cholesterol synthesis (IC_{50} = 0.78 µM), in primary mouse peritoneal macrophages.[1,2] Beauveriolide I also inhibits acyl-coenzyme A:cholesterol acyltransferase (ACAT) activity in mouse macrophage membranes (IC_{50} = 6 µM).[2]

References

1. Namatame, I., Tomoda, H., Si, S., *et al.* Beauveriolides, specific inhibitors of lipid droplet formation in mouse macrophages, produced by *Beauveria* sp. FO-6979. *J. Antibiot. (Tokyo)* **52(1)**, 1-6 (1999).
2. Namatame, I., Tomoda, H., Ishibashi, S., *et al.* Antiatherogenic activity of fungal beauveriolides, inhibitors of lipid droplet accumulation in macrophages. *Proc. Nat. Acad. Sci. USA* **101(3)**, 737-742 (2004).

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