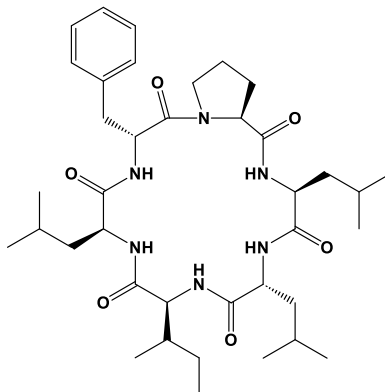


PRODUCT DATA SHEET

Phepropeptin C (Proteasome Inhibitor)



Specifications

Code No	: 16966
CAS#	: 396729-25-2
Molecular Formula	: C ₃₈ H ₆₀ N ₆ O ₆
Molecular Weight	: 696.934
Source	: <i>Streptomyces</i> sp. MK600-cF7
Appearance	: Powder
Purity	: > 98% (HPLC)
Long Term Storage	: at - 20 °C
Solubility	: Soluble in MeOH, DMSO, DMF Insoluble in H ₂ O

The chemical structure was confirmed by NMR and HRMS.

Application Notes

Phepropeptin C was isolated from cultured broth of *Streptomyces* sp. MK600-cF7 as an inhibitor of proteasome (IC₅₀ value 12.5 µg/ml).¹⁾ It showed no inhibition toward proteasomal trypsin-like activity and α-chymotrypsin from bovine pancreas at 100 µg/ml.¹⁾

References

- 1) Isolation and structural determination of pheptopeptins A, B, C and D, new proteasome inhibitors produced by *Streptomyces* sp. Sekizawa R, *et al. J Antibiot.* 2001 **54**(11) 874-881.