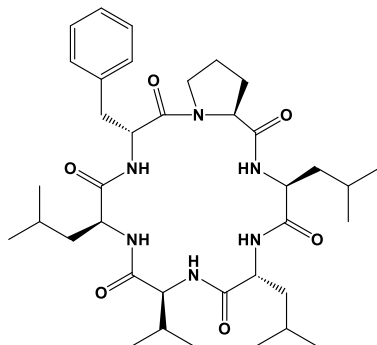


PRODUCT DATA SHEET

Phepropeptin A (Proteasome Inhibitor)



Specifications

| | |
|-------------------|---|
| Code No | : 16964 |
| CAS# | : 396729-23-0 |
| Molecular Formula | : C ₃₇ H ₅₈ N ₆ O ₆ |
| Molecular Weight | : 682.907 |
| 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 A was isolated from cultured broth of *Streptomyces* sp. MK600-cF7 as an inhibitor of proteasome (IC₅₀ value 21.0 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.