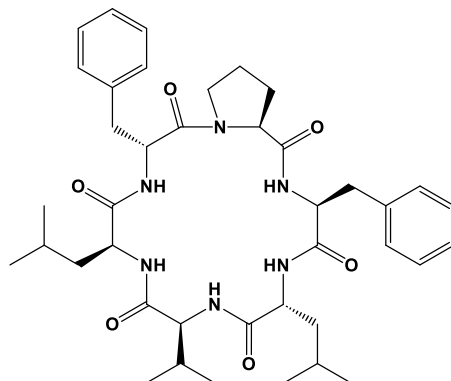


## PRODUCT DATA SHEET

### Phepropeptin B (Proteasome Inhibitor)



### Specifications

|                   |   |
|-------------------|---|
| Code No           | : 16965   |
| CAS#              | : 396729-24-1   |
| Molecular Formula | : C <sub>40</sub> H <sub>56</sub> N <sub>6</sub> O <sub>6</sub> |
| Molecular Weight  | : 716.924   |
| Source            | : <i>Streptomyces</i> sp. MK600-cF7                             |
| Appearance        | : Powder  |
| Purity            | : > 98% (HPLC)  |
| Long Term Storage | : at - 20 °C  |
| Solubility        | : Soluble in MeOH, DMSO, DMF<br>Insoluble in H <sub>2</sub> O   |

The chemical structure was confirmed by NMR and HRMS.

### Application Notes

Phepropeptin B was isolated from cultured broth of *Streptomyces* sp. MK600-cF7 as an inhibitor of proteasome (IC<sub>50</sub> value 11.0 µg/ml).<sup>1)</sup> It showed no inhibition toward proteasomal trypsin-like activity and α-chymotrypsin from bovine pancreas at 100 µg/ml.<sup>1)</sup>

### 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.