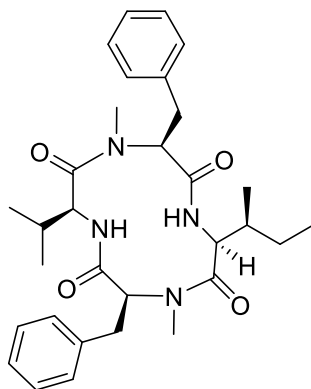


## Onychocin B

Code No.: **BIA-O2365**

Pack sizes: **0.25 mg, 1 mg**



Synonyms :

### Specifications

CAS #	:	<b>NA</b>
Molecular Formula	:	<b>C<sub>31</sub>H<sub>42</sub>N<sub>4</sub>O<sub>4</sub></b>
Molecular Weight	:	<b>534.7</b>
Source	:	<b><i>Aspergillus</i> sp.</b>
Appearance	:	<b>White solid</b>
Purity	:	<b>&gt;95% by HPLC</b>
Long Term Storage	:	<b>-20°C</b>
Solubility	:	<b>Soluble in methanol or DMSO</b>

### Application Notes

Onychocin B is an N-methylated cyclotetrapeptide, similar in structure to hirsutide, originally isolated from the fungus *Onychocola sclerotica*. Onychocin B is a cardiac calcium channel blocker but does not inhibit the hERG potassium channel. Onychocin B moderately inhibits the proliferation of mouse myeloma cells in a dose-dependent manner with an IC<sub>50</sub> of 23.1 µg/mL.

### References

1. Isolation and structural elucidation of cyclic tetrapeptides from *Onychocola sclerotica*. Pérez-Victoria I. et al. *J Nat Prod.* 2012, 75, 1210.
2. Cyclization of linear tetrapeptides containing N-methylated amino acids by using 1-propanephosphonic acid anhydride. Zhang S. et al. *Eur J Org Chem.* 2017, 2017, 149.