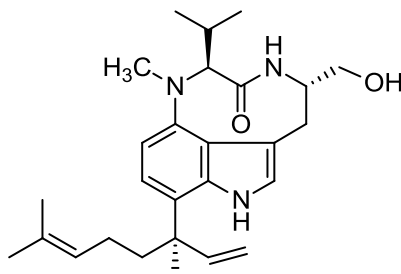


## Teleocidin A1

Code No.: **BIA-T1429**

Pack sizes: **1 mg, 5 mg**



Synonyms : Lyngbyatoxin, Lyngbyatoxin A, Teleocidin A 1

## Specifications

CAS #	: <b>70497-14-2</b>
Molecular Formula	: <b>C<sub>27</sub>H<sub>39</sub>N<sub>3</sub>O<sub>2</sub></b>
Molecular Weight	: <b>437.7</b>
Source	: <b><i>Streptomyces</i> sp.</b>
Appearance	: <b>White to light tan solid</b>
Purity	: <b>&gt;98% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</b>

## Application Notes

Teleocidin A is a potent nematocide and acaricide produced by *Streptoverticillium* strains, first reported in 1960. Teleocidin A is a potent activator of protein kinase C, and also a tumor promoting agent and inducer of colony-stimulating factors. More recently, teleocidin A1 has been shown to regulate the expression of several genes. To date, the lack of availability of teleocidin has meant the truncated teleocidin-like (-)indolactam has been used to mimic teleocidin cellular responses.

## References

1. A new toxic substance, teleocidin, produced by *Streptomyces*. Part I. Production, isolation and chemical studies. Takashima M. & Sakai H. Bull. Agr. Chem. Soc. Japan 1960, 24, 647.
2. Screening method for colony-stimulating factor inducers using a human bone marrow stromal cell line, KM-102. Kohama T. et al. J. Antibiot. 1993, 46, 1494.
3. Activity of mangosteen xanthenes and teleocidin a-2 in death receptor expression enhancement and tumor necrosis factor related apoptosis-inducing ligand assays. Kikuchi H. J. Nat. Prod. 2010, 73, 452.

Updated: 2 December 2014