

**Product Name:** Teleocidin A1

**Product Number:** T075

**CAS Number:** 70497-14-2

**Molecular Formula:**  $C_{27}H_{39}N_3O_2$

**Molecular Weight:** 437.7

**Appearance:** White to light tan solid

**Storage Conditions:** -20°C

**Description:** Teleocidin A is a potent nematocide and acaricide produced by Streptovercillium 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.

Teleocidin A is soluble in ethanol, methanol, DMF and DMSO.

**References:** 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.

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.

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.