

Product Name: Bassianolide

Product Number: B044

CAS Number: 64763-82-2

Molecular Formula: $C_{48}H_{84}N_4O_{12}$

Molecular Weight: 909.2

Appearance: White solid

Storage Conditions: -20°C

Description: Bassianolide is a cyclooctadepsipeptide insecticide isolated from the entomopathogenic fungi, *Beauveria* and *Verticillium lecanii*, first reported by researchers at University of Tokyo in 1978. Bassianolide is related to the insecticidal and nematocidal actives, PF1022 complex and the synthetic anthelmintic emodepside. Bassianolide is one of the active components of *Beauveria bassiana* biocontrol products.

Bassianolide is soluble in ethanol, methanol, DMF and DMSO.

Mechanism of Action: While the mode of action of bassianolide is not fully resolved, it is thought to act on ion channels at the level of the neuromuscular junction, like emodepside.

References: Bassianolide, a new insecticidal cyclodepsipeptide from *Beauveria bassiana* and *Verticillium lecanii*. Kanaoka M. et al. *Agric. Biol. Chem.* 1978, 42, 629.

Anthelmintic cyclcooctadepsipeptides: complex in structure and mode of action. Krucken J. *Trends in Parasitology* 2012, 28, 385.

Cyclooctadepsipeptides - an anthelmintic active class of compound exhibiting a novel mode of action. Harder A. et al. *Int. J. Antimicrob. Agents* 20013, 22, 318.