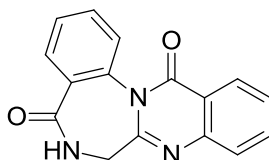


Sclerotigenin

Code No.: **BIA-S1678**

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



Synonyms :

Specifications

CAS #	: 65641-84-1
Molecular Formula	: C₁₆H₁₁N₃O₂
Molecular Weight	: 277.3
Source	: <i>Penicillium</i> sp.
Appearance	: Light tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Sclerotigenin is a benzodiazepine isolated from the sclerotia of *Penicillium sclerotigenum* by Gloer and co-workers at the USDA and University of Iowa, USA in 1999 as an anti-insectan active against the caterpillar, *Helicoverpa zea*. Structurally, sclerotigenin forms the 7-membered diazepine by coupling two anthranilic acid moieties with glycine. Sclerotigenin is the simplest member of the fungal benzodiazepines which include asperlicins, benzomalvins and circumdatins. Sclerotigenin is an important metabolite for the chemotaxonomy of the genus *Penicillium*.

References

1. Sclerotigenin: a new antiinsectan benzodiazepine from the sclerotia of *Penicillium sclerotigenum*. Joshi B.K. et al., *J. Nat. Prod.* 1999, 62, 650.
2. UV-guided screening of benzodiazepine-producing species in *Penicillium* Larsen T.O. et al., *Biochem. Syst. Ecol.* 2000, 28, 881.
3. Biochemical characterization of ochratoxin A-producing strains of the genus *Penicillium*. Larsen T.O. et al., *Appl. Environ. Microbiol.* 2001, 67, 3630.
4. Cell cytotoxicity and mycotoxin and secondary metabolite production by common *Penicillia* on cheese agar. Larsen T.O. et al., *J. Agric. Food Chem.* 2002, 50, 6148.