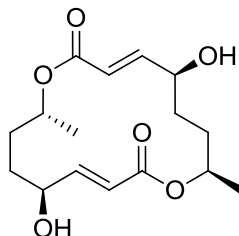


Pyrenophorol

Code No.: **BIA-P1407**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : (-)-Pyrenophorol, Helmidiol

Specifications

CAS #	: 22248-41-5
Molecular Formula	: C₁₆H₂₄O₆
Molecular Weight	: 312.4
Source	: Unidentified fungus
Appearance	: Colourless residue
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Pyrenophorol is a simple macrocyclic dilactone produced by a number of species of pathogenic fungi, including *Byssosclamyces*, *Stenphyllum*, *Alternaria* and *Drechslera*, first reported in the late 1960s. Pyrenophorol exhibits antibiotic, herbicidal and anthelmintic properties, and is a weak inhibitor of propyl endopeptidases. Pyrenophorol inhibits seed germination but once the seed is germinated, pyrenophorol enhances root development but causes abnormal chlorophyll retention in leaf sections.

References

1. Isolation of pyrenophorol. Kis Z. et al. *Experientia* 1969, 25, 123.
2. Albocycline and carbomycin-type macrolides, inhibitors of human propyl endopeptidases. Christner C. et al. *J. Antibiot* 1998, 51, 368.
3. Bioactivity of the fungal metabolite (8R,16R)-(-)-pyrenophorin on graminaceous plants. Kastanias M.A. & Chrysai-Tokousbalides M. *J. Agric. Food Chem.* 2005, 53, 5943.

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