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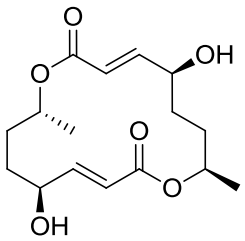
PRODUCT DATA SHEET

Pyrenophorol

Code No.: **BIA-P1407**

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



Synonyms : (-)-Pyrenophorol, Helmidiol

Specifications

CAS #	:	**22248-41-5**
Molecular Formula	:	**$C_{16}H_{24}O_6$**
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 Byssochlamys, 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, pyrenophlorol 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 endopeptideases. Christner C. et al., J. Antibiot 1998, 51, 368.
3. Bioactivity of the fungal metabolite (8R,16R)-(-)-pyrenophorin on graminaceous plants. Kastanias M.A. & Chrysayi-Tokousbalides M. J. Agric. Food Chem. 2005, 53, 5943.

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