

Product Name: Pyrenophorol

Product Number: P099

CAS Number: 22248-41-5

Molecular Formula: C₁₆H₂₄O₆

Molecular Weight: 312.4

Appearance: Colourless residue

Storage Conditions: -20°C

Description: 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, pyrenophorol enhances root development but causes abnormal chlorophyll retention in leaf sections.

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

References: Isolation of pyrenophorol. Kis Z. et al. *Experientia* 1969, 25, 123.

Albocycline and carbomycin-type macrolides, inhibitors of human propyl endopeptidases. Christner C. et al. *J. Antibiot* 1998, 51, 368.

Bioactivity of the fungal metabolite (8R,16R)-(-)-pyrenophorin on graminaceous plants. Kastanias M.A. & Chrysai-Tokousbalides M. *J. Agric. Food Chem.* 2005, 53, 5943.