

Product Name: 10,11-dehydrocurvularin

Product Number: D040

CAS Number: 1095588-70-7

Molecular Formula: $C_{16}H_{18}O_5$

Molecular Weight: 290.3

Appearance: White to off white solid

Storage Conditions: -20°C

Description: Dehydrocurvularin is a 12-membered macrocyclic lactone incorporating a resorcinyll moiety, produced by a number of fungal species including Curvularia, Penicillium and Alternaria. Dehydrocurvularin inhibits cell division by disrupting mitotic spindle formation and acts as a developmental regulator by inhibiting self-sporulation in Alternaria alternata. More recently dehydrocurvularin has been shown to have antimalarial activity.

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

References: Curvularin. Part V. The compound $C_{16}H_{18}O_5$, α,β -dehydrocurvularin. Munro H.D. et al. J. Chem. Soc. 1967, 947.

Isolation of alpha, beta-dehydrocurvularin and, beta-hydroxycurvularin from Alternaria tomato as sporulation suppressing factors. Hyeon S-B. et al. Agri. Biol. Chem. 1976, 44, 1663.

Betagamma-dehydrocurvularin and related compounds as nematocides of Pratylenchus penetrans from the fungus Aspergillus sp. Kusano M. et al. Biosci. Biotechnol. Biochem. 2003, 67, 1413.