



LKT Laboratories, Inc.

Curvularin

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID C822706

CAS No. 10140-70-2

Chemical Name (4S)-11,13-Dihydroxy-4-methyl-4,5,6,7,8,9-hexahydro-2H-3-benzoxacyclododecine-2,10(1H)-dione

Synonym

Formula C₁₆H₂₀O₅

Formula Wt. 292.33

Melting Point 203-205°C

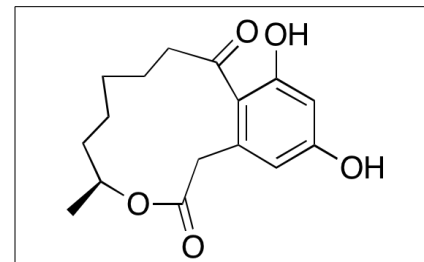
Purity ≥98%

Solubility Soluble in DMSO, ethanol, methanol and DMF.
Insoluble in water.

Store Temp -20°C

Ship Temp Ambient

Description Curvularin is a macrocyclic lactone metabolite produced in several fungi. In a model of transgenic DBA/1 mice curvularin significantly reduced the expression of proinflammatory genes involved in the pathogenesis of collagen-induced arthritis and rheumatoid arthritis. In another study using human epithelial alveolar cell line A549/8 as the model, curvularin was shown to inhibit the cytokine-mixture-induced inducible-nitric-oxide-synthase promoter activity in a dose-dependent manner.



Bulk quantities available upon request

Product ID	Size
C822706	1 mg
C822706	5 mg
C822706	25 mg

References Schmidt N, Art J, Forsch I, et al. The anti-inflammatory fungal compound (S)-curvularin reduces proinflammatory gene expression in an in vivo model of rheumatoid arthritis. *J Pharmacol Exp Ther.* 2012 Oct;343(1):106-114. PMID: 22767531.

Yao Y, Hausding M, Erkel G, et al. Sporogen, S14-95, and S-curvularin, three inhibitors of human inducible nitric-oxide synthase expression isolated from fungi. *Mol Pharmacol.* 2003 Feb;63(2):383-391. PMID: 12527810.

Kumar CG, Mongolla P, Sujitha P, et al. Metabolite profiling and biological activities of bioactive compounds produced by *Chrysosporium lobatum* strain BK-3 isolated from Kaziranga National Park, Assam, India. *Springerplus.* 2013 Dec;2(1):122. PMID: 23565355.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.