



LKT Laboratories, Inc.

10,11-Dehydrocurvularin

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Product Information

Product ID D170310

CAS No. 1095588-70-7

Chemical Name Dehydrocurvularin

Synonym α , β -Dehydrocurvularin; Dehydrocurvularin; Trans-Dehydrocurvularin; AC105P3Y

Formula C₁₆H₁₈O₅

Formula Wt. 290.32

Melting Point 220-223°C

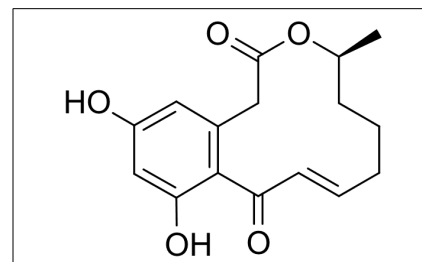
Purity $\geq$ 98%

Solubility

Store Temp -20°C

Ship Temp Ambient

Description 10,11-Dehydrocurvularin is a fungal metabolite produced by Penicillium species. 10,11-Dehydrocurvularin is a cyclic lactone that has been shown to interfere with NF- κ B, JAK/STAT, and TGF- β signalling. Furthermore, this macrocyclic polyketide has been found to be an activator of heat shock response and to produce immune-modulating activities.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D170310	1 mg	\$115.90
D170310	5 mg	\$388.40
D170310	10 mg	\$674.60

References Ha TM, Ko W, Lee SJ, et al. Anti-inflammatory effects of curvularin-type metabolites from a marine-derived fungal strain Penicillium sp. SF-5859 in lipopolysaccharide-induced RAW264.7 macrophages. Mar Drugs. 2017 Sep 2;15(9):pii:E282. PMID: 28869509.

Schreiber D, Marx L, Felix S, et al. Anti-inflammatory effects of fungal metabolites in mouse intestine as revealed by in vitro models. Front Physiol. 2017 Aug 7;8:566. PMID: 28824460.

de Castro MV, Ioca LP, Williams DE, et al. Condensation of macrocyclic polyketides produced by Penicillium sp. DRF2 with mercaptopyruvate represents a new fungal detoxification pathway. J Nat Prod. 2016 Jun 24;79(6):1668-1678. PMID: 27227682.

Xu Y, Espinosa-Artiles P, Schubert V, et al. Characterization of the biosynthetic genes for 10,11-dehydrocurvularin, a heat shock response-modulating anticancer fungal polyketide from Aspergillus terreus. Appl Environ Microbiol. 2013 Mar;79(6):2038-2047. PMID: 23335766.

Rudolph K, Serwe A, Erkel G. Inhibition of TGF- β signaling by the fungal lactones (S)-curvularin, dehydrocurvularin, oxacyclodecindione and galiellalactone. Cytokine. 2013 Jan;61(1):285-296. PMID: 23134667.

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