

Product Information

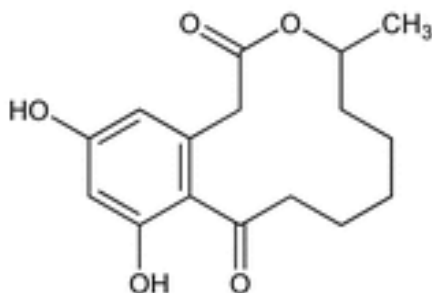
Curvularin

from *Penicillium citrinum*

Catalog Number **SML0772**

Storage Temperature $-20\text{ }^{\circ}\text{C}$

CAS RN 10140-70-2



Product Description

Molecular formula: C₁₆H₂₀O₅

Molecular weight: 292.33

S-Curvularin is a macrocyclic lactone with cytotoxic activity. It inhibits cell division as well as expression of human inducible nitric oxide synthase (iNOS), an enzyme critically involved in pro-inflammatory immune processes.¹⁻² Curvularin anti-inflammatory activity was demonstrated in chronic inflammatory disease models in mice such as Chronic Induced Arthritis (CIA) as well as in human alveolar epithelial A549/8 cells.²⁻³

Purity: $\geq 98\%$ (HPLC)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Curvularin is soluble in DMSO (1 mg/mL), chloroform (3 mg/mL), and dichloromethane (3 mg/mL), and insoluble in water.

Storage/Stability

Store the product sealed at $-20\text{ }^{\circ}\text{C}$. Under these conditions the product is stable for at least 5 years.

References

1. Elzner, S. et al., Inhibitors of inducible NO synthase expression: total synthesis of (S)-curvularin and its ring homologues. *Chem. Med. Chem.*, **3**, 924-939 (2008).
2. Schmidt, N. et al., The anti-inflammatory fungal compound (S)-curvularin reduces pro-inflammatory gene expression in an *in vivo* model of rheumatoid arthritis. *J. Pharmacol. Exp. Ther.*, **343**, 106-114 (2012).
3. Yao, Y. et al., Sporogen, S14-95, and S-Curvularin, three inhibitors of human inducible nitric-oxide synthase expression isolated from fungi. *Mol. Pharmacol.*, **63**, 383-391 (2003).

DWF,MAM 04/14-1