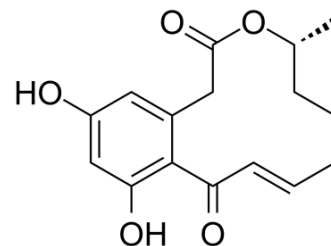


10,11-Dehydrocurvularin

Cat. No.:	HY-N6679
CAS No.:	1095588-70-7
Molecular Formula:	C ₁₆ H ₁₈ O ₅
Molecular Weight:	290.31
Target:	TGF-beta/Smad
Pathway:	Stem Cell/Wnt; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	10,11-Dehydrocurvularin is an antibiotic and a strong activator of the heat shock response , a conserved evolutionary mechanism that maintains protein homeostasis via the overexpression of heat shock factor 1 (HSF1) and various chaperones including heat shock protein 90 (Hsp90). 10,11-Dehydrocurvularin inhibits TGF- β signalling pathway. Anti-tumorous activity ^{[1][2]} .
IC₅₀ & Target	Heat shock response ^[1] TGF- β signalling pathway ^[2]

REFERENCES

- [1]. Xu Y, 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):2038-47.
- [2]. Cochrane RV, et al. Comparison of 10,11-Dehydrocurvularin Polyketide Synthases from *Alternaria cinerariae* and *Aspergillus terreus* Highlights Key Structural Motifs. *Chembiochem*. 2015 Nov;16(17):2479-83.

Caution: Product has not been fully validated for medical applications. For research use only.

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