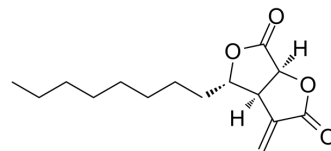


Avenaciolide

Cat. No.:	HY-N10272
CAS No.:	26057-70-5
Molecular Formula:	C ₁₅ H ₂₂ O ₄
Molecular Weight:	266.33
Target:	Fungal; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Avenaciolide is an antifungal bis- γ -lactone found in *Aspergillus avenaceus*. Avenaciolide has also antibacterial action. Avenaciolide is a specific inhibitor of glutamate transport in rat liver mitochondria. Avenaciolide interferes with the ability of ADP to stimulate the rate of glutamate oxidation^{[1][2]}.

REFERENCES

- [1]. Castelo-Branco PA, et al. Synthesis and antifungal activity of aromatic bis-gamma-lactones analogous to avenaciolide. *Chem Biodivers*. 2007;4(12):2745-2754.
- [2]. McGivan JD, Chappell JB. Avenaciolide: a specific inhibitor of glutamate transport in rat liver mitochondria. *Biochem J*. 1970;116(4):37P-38P.

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

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