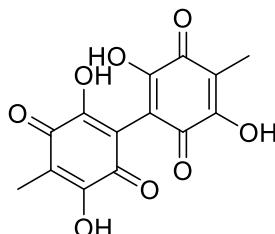


Oosporein

Code No.: **BIA-O2303**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : NSC 88466

Specifications

CAS #	: 475-54-7
Molecular Formula	: C ₁₄ H ₁₀ O ₈
Molecular Weight	: 306.22
Source	: <i>Beauveria bassiana</i>
Appearance	: Red solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Oosporein is a purple-red pigment published as a metabolite of *Acremonium* sp. in 1959. Oosporein has antibacterial, antiviral and antifungal activity. Oosporein is produced by the entomopathogenic fungus *Beauveria bassiana* after host death, acting to limit microbial competition on *B. bassiana*-killed hosts and allowing the fungus to maximally use host nutrients to grow and sporulate on infected insect cadavers. Oosporein production is regulated by a cascade of transcription factors, with BbSmr1 acting as an upstream negative regulator, targeting the expression of OpS3, which in turn acts as a positive regulator of the oosporein biosynthetic gene cluster.

References

1. Oosporein from an *Acremonium* sp. Divekar P.V. et al. Can J Chem. 1959, 37, 2097.
2. Antifungal activity of oosporein from an antagonistic fungus against *Phytophthora infestans*. Nagaoka T. et al. Zeitschrift fur Naturforschung. C, J Biosci. 2004, 59, 302.
3. Inhibition of herpes simplex virus type 1 DNA polymerase by the natural product oosporein. Terry B.J. et al. J Antibiot. 1992, 45, 286.
4. Regulatory cascade and biological activity of *Beauveria bassiana* oosporein that limits bacterial growth after host death. Fan Y. et al Proc Nat Acad Sci. 2017, 114, E1578.