

BVT-0348

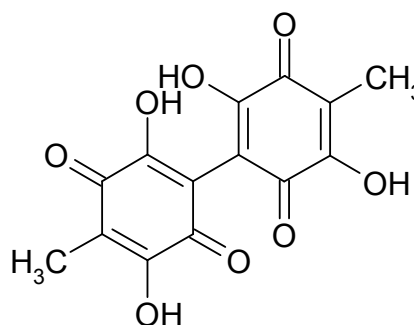
Oosporein

[Chaetomidin; NSC 88466; BRN 1892735]

Formula $C_{14}H_{10}O_8$
MW 306.2
CAS 475-54-7
Merck Index
RTECS

Handling / Storage

Shipping Ambient
Short Term Storage +4°C
Long Term Storage +4°C



Use / Stability

Stable for at least 1 year after receipt when stored, as supplied, at +4°C.

Hazard / Toxicity

MSDS available upon request.

Product Specifications

Source/Host Isolated from *Beauveria sp.*
Purity Detail >98% (HPLC)
Appearance Orange-red solid.
Solubility Soluble in methanol or DMSO.

Other Product Data

Identity Determined by 1H -NMR.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

Product Description

- Mycotoxin, potential contaminant of animal feeds.
- Plant growth inhibitor.
- Antifungal and antiviral compound.
- Cytotoxic against insect cells.
- Antitumor compound in HL-60 and A549 cells.

Product Specific References

1. *Untersuchungen über Pilzfarbstoffe XIV : Über Oosporein, den Farbstoff von Oospora colorans van Beyma: F. Kögl & G.C. van Wessem; Rec. Trav. Chim. (Pays-Bas) 63, 5 (1944)*
2. *Toxic effects of oosporein from Chaetomium trilaterale: R.J. Cole, et al.; J. Agr. Food Chem. 22, 517 (1974)*
3. *Inhibition of herpes simplex virus type 1 DNA polymerase by the natural product oosporein: B.J. Terry, et al.; J. Antibiot. 45, 286 (1992)*
4. *Physicochemical properties of oosporein, the major secreted metabolite of the entomopathogenic fungus Beauveria brongniartii: C. Seger, et al.; Helv. Chim. Acta 88, 802 (2005)*
5. *An efficient synthesis of oosporein: B.E. Love, et al.; Tetrahed. Lett. 50, 5050 (2009)*
6. *Separation and determination of the bioactivity of oosporein from Chaetomium cupreum: B.-Z. Mao, et al.; Afr. J. Biotechnol. 9, 5955 (2010)*
7. *Cytotoxic activity of fungal metabolites from the pathogenic fungus bassiana: an intraspecific evaluation of beauvericin production: J.W. Arboleda Valencia, et al.; Curr. Microbiol. 63, 306 (2011)*
8. *Oosporein from Tremella fuciformis: G. He, et al.; Acta Cryst. E68, o1231 (2012)*

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.