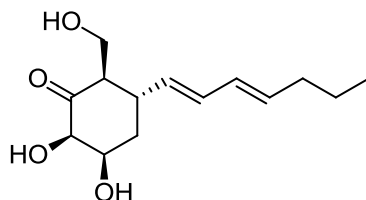


Palitantin

Code No.: **BIA-P1701**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	: 15265-28-8
Molecular Formula	: C ₁₄ H ₂₂ O ₄
Molecular Weight	: 254.3
Source	: <i>Penicillium sp.</i>
Appearance	: White to off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Palitantin is a polar neutral metabolite isolated from *Penicillium palitans* by Birkinshaw and Raistrick from the London School of Hygiene and Tropical Medicine in 1936. Palitantin is a cyclitol-like metabolite bearing a heptadiene chain, the conjugated diene giving palitantin its highly characteristic UV spectrum. Palitantin has been found in a number of *Penicillium* species and is a useful metabolite for chemotaxonomy of the genus. Palitantin is a potent antifungal active with minimal toxicity to mammalian cells.

References

1. Studies in the biochemistry of microorganisms. XLIX. Palitantin, C₁₄H₂₂O₄ a hitherto undescribed metabolic product of *Penicillium palitans* Westling. Birkinshaw J.H. and Raistrick H., *Biochem. J.* 1936, 801.
2. Studies in the biochemistry of micro-organisms. 88. Palitantin. Part 2. Further derivatives and degradation products. Birkinshaw J.H., *Biochem. J.* 1952, 51, 271.
3. Über die Isolierung neuer stoffwechselprodukte aus *Penicillium brefeldianum* Dodge (Isolation of new metabolic products from *Penicillium brefeldianum* Dodge). Haerri E. et al., *Helv. Chim. Acta* 1963, 46, 1235.
4. Effect of palitantin, a metabolite of *Penicillium frequentans*, on *Leishmania brasiliensis* Fuska J. et al., *Folia Microbiol.* 1970, 15, 111.
5. Chemical response of *Picea glehnii* seed-epiphytic *Penicillium* species to *Pythium vexans* under in vitro competitive conditions for mycelial growth. Yamaji K. et al., *J. Chem. Ecol.* 2005, 31, 805.