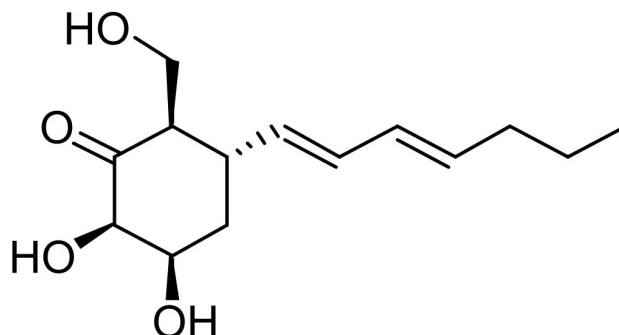


## Palitantin

Pack sizes.: 0.5mg, 2.5mg



Synonyms:

-

## Specifications

CAS #	: <b>15265-28-8</b>
Molecular Formula	: <b>C14H22O4</b>
Molecular Weight	: <b>254.32</b>
Source	: -
Appearance	: <b>White to off-white solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## 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, C<sub>14</sub>H<sub>22</sub>O<sub>4</sub> 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. 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.