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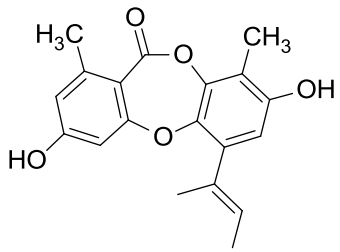
PRODUCT DATA SHEET

Unguinol

Code No.: **BIA-U1668**

Pack sizes: **1 mg, 5 mg**



Synonyms : Yasimin; tris-dechloronidulin

Specifications

CAS #	:	**36587-59-4**
Molecular Formula	:	**$C_{19}H_{18}O_5$**
Molecular Weight	:	**326.3**
Source	:	***Aspergillus* sp.**
Appearance	:	**Yellow to beige solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Unguinol is a depsidone isolated from Aspergillus unguis by researchers at the USDA in 1972. In the same year, Swedish researchers produced unguinol by fermentation of a strain of A. nidulins in chloride-depleted media. Unguinol exhibits weak antibacterial activity but its pharmacology has not been extensively investigated. A discovery screen of fungal extracts identified unguinol as an inhibitor of C4 plant enzyme pyruvate phosphate dikinase (PPDK), a potent herbicide target.

References

1. The chemistry of fungi. Part XXII. Nidulin and nornidulin ("ustin "): chlorine-containing metabolic products of Aspergillus nidulans. Dean F.M. et al., J. Chem. Soc. 1954, 1432.
2. A new depsidone from Aspergillus unguis. Stodola F.H. et al., Phytochem. 1972, 11, 2107.
3. A new depsidone from Aspergillus nidulins. Sierankiewicz J. and Gatenbeck S., Acta Chem. Scand. 1972, 26, 455.
4. Screening marine fungi for inhibitors of the C4 plant enzyme pyruvate phosphate dikinase: unguinol as a potential novel herbicide candidate. Motti C.A. et al., Appl. Environ. Microbiol. 2007, 73, 1921.

Updated: 24 May 2019

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