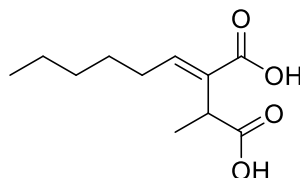


Piliformic acid

Code No.: **BIA-P2269**

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



Synonyms : (2E)-2-Hexylidene-3-methylbutanedioic acid

Specifications

CAS #	: 98985-76-3
Molecular Formula	: C ₁₁ H ₁₈ O ₄
Molecular Weight	: 214.26
Source	: Unidentified fungus
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

Piliformic acid is produced by fungi including *Xylaria* sp.. Piliformic acid has mild inhibitory activity against *Propionibacterium acnes*, inhibiting the *P. acnes*-induced pro-inflammatory cytokines production in THP-1 cells. Piliformic acid is active against the plant fungal pathogen *Colletotrichum gloeosporioides* with MIC 2.92 µmol/mL and has antileishmanial activity.

References

1. Metabolites of the higher fungi. Part 22. 2-Butyl-3-methylsuccinic acid and 2-hexylidene-3-methylsuccinic acid from xylariaceous fungi. Anderson J.R. et al. J Chem Soc Perkin Trans. 1 1985, 1481.
2. Leishmanicidal compounds of *Nectria pseudotrichia*, an endophytic fungus isolated from the plant *Caesalpinia echinata* (Brazilwood). Barros Cota B. et al. Mem Inst Oswaldo Cruz. 2018, 113, 102.
3. The potential of compounds isolated from *Xylaria* spp. as antifungal agents against anthracnose. Elias L.M. et al. Braz J Microbiol. 2018, 49, 840.
4. In vitro antibacterial and anti-inflammatory effects of novel insect fungus *Polycephalomyces phaothaiensis* extract and its constituents against *Propionibacterium acnes*. Witsanu Sonyot et al. Antibiotics 2020, 9, 274.