

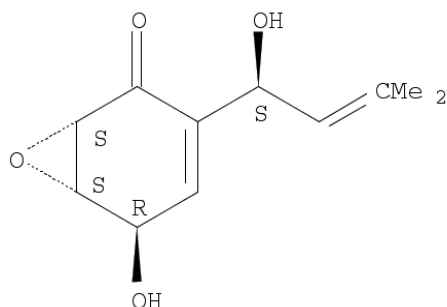
Product Information

Panepoxydone from *Lentinus conatus*

Catalog Number **SML0726**
Storage Temperature -20 °C

CAS RN: 31298-54-1

Synonyms: RS-K 3574; (1S,5R,6S)-5-Hydroxy-3-[(1S)-1-hydroxy-3-methyl-2-buten-1-yl]-7-oxabicyclo[4.1.0]hept-3-en-2-one



Molecular formula: C₁₁H₁₄O₄
Molecular weight: 210.23

Product Description

Panepoxydone is a fungal metabolite that inhibits NF-κB transcription factor by preventing IκB phosphorylation, thus inhibiting the release of NF-κB from the IκB: NF-κB complex and its translocation into the nucleus.¹⁻³ Panepoxydone also has antimalarial, cytotoxic activities and anti-parasitic activity against *Trypanosoma cruzi*.⁴

Purity: ≥ 95% (HPLC)

Reconstitution instructions

Soluble in ethyl acetate, ethanol, and DMSO (10 mg/ml). The product is soluble, but not stable, in water and methanol.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store the product sealed at -20°C, protect from light. Under these conditions the product is stable for at least 2 years.

References

1. Erkel G., et al., Influence of the fungal NF-κB inhibitor panepoxydone on inflammatory gene expression in MonoMac6 cells. *Int. Immunopharmacol.*, **7**, 612-624 (2007).
2. Erkel, G., et al., Inhibition of NF-κB activation by panepoxydone. *Biochem. Biophys. Res. Commun.*, **226**, 214-221 (1996).
3. Yamamoto, Y., and Gaynor, R. B., IκB kinases: key regulators of the NF-κB pathway. *Trends Biochem. Sci.*, **29**, 72-79. (2004).
4. Cota, B. B., et al., A potent trypanocidal component from the fungus *Lentinus strigosus* inhibits trypanothione reductase and modulates PBMC proliferation. *Mem. Inst. Oswaldo Cruz.*, **103**, 263-270 (2008).

DWF,KAA,PHC 01/14-1