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**Product Data Sheet**

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Product Name: 4-hydroxy Alternariol

Cat. No.: GC18858

**Chemical Properties**

Cas. No. 959417-21-1

Chemical Name 3,4,7,9-tetrahydroxy-1-methyl-6H-dibenzo[b,d]pyran-6-one

SMILES CC1=C(C2=C(C(O3)=O)C(O)=CC(O)=C2)C3=C(O)C(O)=C1Formula  $C_{14}H_{10}O_6$  M.Wt 274.2

Solubility DMF: Soluble, DMSO: Soluble, Ethanol: Soluble, Methanol: Soluble Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

4-hydroxy Alternariol is a metabolite of the mycotoxin alternariol formed through cytochrome P450 (CYP450) metabolism. It increases reactive oxygen species (ROS) in KYSE510 human esophageal cells by 701% compared to control. 4-hydroxy Alternariol increases topoisomerase II $\beta$ -DNA complexes by 208% compared to control in an ICE assay but does not induce DNA damage in KYSE510 cells. It completely inhibits topoisomerase II $\alpha$  activity at a concentration of 25  $\mu$ M under cell-free conditions.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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