

Product Data Sheet

Product Name: Cochlioquinone A

Cat. No.: GC43288

Chemical Properties

Cas. No. 32450-25-2

SMILES C[C@]12[C@@](O[C@@H](C(C)(O)C)CC2)([H])CC[C@@]([C@]1([H])[C@@H]3O)(C)OC4=C3C(C=C([C@H](C)[C@H](OC(C)=O)[C@@H](C)CC)C4=O)=O

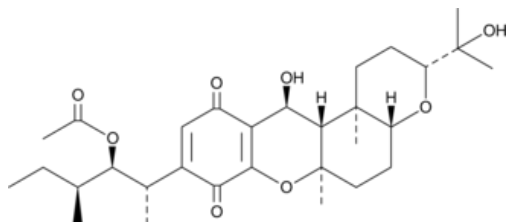
Formula C₃₀H₄₄O₈ M.Wt 532.7

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

Cochlioquinone A, a bioactive compound isolated from *D. sacchari* and *Bipolaris* sp., is an inhibitor of diacylglycerol kinase (DGK; $K_i = 3.1 \mu\text{M}$) and diacylglycerol acyltransferase (DGAT; $\text{IC}_{50} = 5.6 \mu\text{M}$). It has been shown to reduce the concentration of phosphatidic acid in T cell lymphoma with an IC_{50} value of $3 \mu\text{M}$. It is also reported to compete with macrophage inflammatory protein-1 α for binding to human CCR5 chemokine receptors with an IC_{50} value of $11 \mu\text{M}$.

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

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