

Product Data Sheet

Product Name: Cochlioquinone B

Cat. No.: GC43289

Chemical Properties

Cas. No. 32450-26-3

SMILES C[C@]12[C@@](O[C@@H](C(C)(O)C)CC2)([H])CC[C@@]([C@]1([H])C3)(C)OC4=C3C(C=C([C@H](C)C([C@@H](C)CC)=O)C4=O)=O

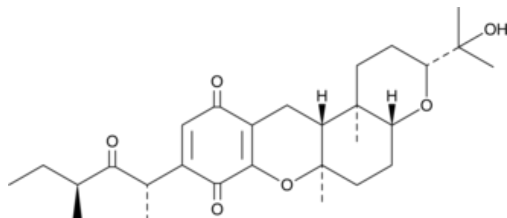
Formula C₂₈H₄₀O₆ M.Wt 472.6

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 is a sesquiterpene metabolite originally isolated from *C. miyabeanus*. It is a phytotoxin that inhibits root growth of finger millet (*E. coracana*) and rice plants (*O. sativa*) by 59.9 and 51.7%, respectively, when used at a concentration of 100 ppm. Cochlioquinone B inhibits NADH oxidase and NADH-2,3-dimethoxy-5-pentyl-1,4-benzoquinone reductase from bovine heart mitochondria.

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

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