
Product Data Sheet

Product Name: Chrysomycin B

Cat. No.: GC18344

Chemical Properties

Cas. No. 83852-56-6

Chemical Name 4-(6-deoxy-3-C-methyl- β -gulopyranosyl)-1-hydroxy-10,12-dimethoxy-8-methyl-6H-benzo[d]naphtho[1,2-b]pyran-6-oneSMILES O=C(O1)C2=C(C(OC)=CC(C)=C2)C3=C1C4=C(C5OC(C)C(O)C(C)(O)C5O)C=CC(O)=C4C(OC)=C3Formula C₂₇H₂₈O₉ M.Wt 496.5

Solubility Soluble in DMSO 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**

Chrysomycin B is an antibiotic isolated from a strain of Streptomyces. It differs from its analog chrysomycin A by having a methyl, rather than vinyl, group in the 8-position of the chromophore. Like its analog, chrysomycin B suppresses the growth of transplantable tumors in mice, an effect that may be related to its ability to bind DNA. It also causes DNA damage in the human lung adenocarcinoma A549 cell line and inhibits topoisomerase II. Chrysomycin B is structurally very similar to gilvocarcin V, which promotes DNA cross-linking with histone 3 and GRP78 when photoactivated by near-UV light.

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

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