

Product Data Sheet

Product Name: Rubiginone D2

Cat. No.: GC48693

Chemical Properties

Cas. No. 274913-71-2

SMILES O=C1C2=C(C(C3=C(OC)C=CC=C31)=O)C=CC([C@@H]([C@@H]([C@@H]4O)C)O)=C2C4=O

Formula C₂₀H₁₆O₆

M.Wt 352.3

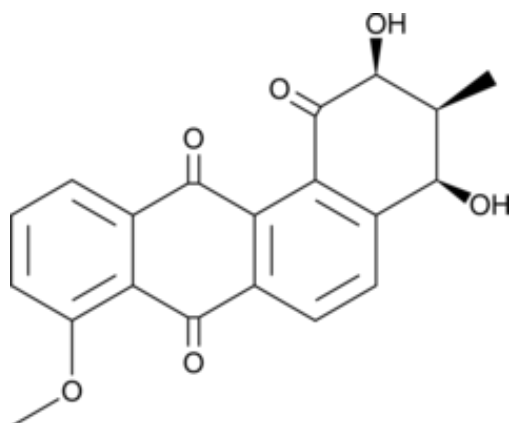
Solubility

Storage -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

Rubiginone D₂ is a polyketide that has been found in *Streptomyces* that has antibacterial and anticancer activities.¹ It is active against *S. aureus* and *E. coli*, but not *B. subtilis*, in agar diffusion assays when used at a concentration of 64 µg/disc. Rubiginone D₂ inhibits growth of HM02, KATO III, HepG2, and MCF-7 cancer cells (GI₅₀s = 0.1, 0.7, <0.1, and 7.5 µmol/L).

1. Puder, C., and Zeeck, A. New biologically active rubiginones from *Streptomyces* spJ. Antibiot.

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

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