

Product Data Sheet

Product Name: Rubratoxin A

Cat. No.: GC40285

Chemical Properties

Cas. No. 22467-31-8

SMILES O=C1C2=C(C[C@@]([C@H](O)[C@]3([H])CC=CC(O3)=O)([H])CC(C(OC4=O)=O)=C4[C@H](O)[C@]2([H])[C@H](O)CCCCC)C(O)O1

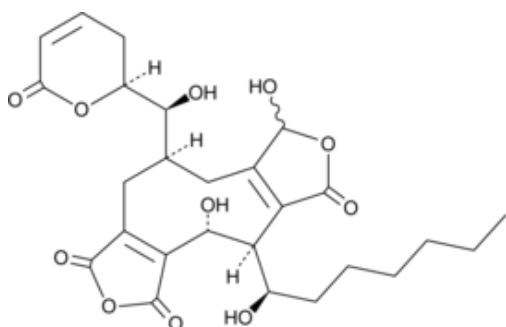
Formula C₂₆H₃₂O₁₁ M.Wt 520.5

Solubility 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

Rubratoxin A is a natural mycotoxin and competitive inhibitor of protein phosphatase 2A (PP2A; IC₅₀ = 170 nM). It has no significant effect on several other phosphatases, including PP1, PP2B, and protein tyrosine phosphatase 1B. Rubratoxin A drives overphosphorylation of PP2A substrate proteins in cultured cells treated for three hours at 20 μM. It causes suppression of tumor metastasis and reduction of primary tumor volume in mouse xenografts.

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

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