

Product Data Sheet

Product Name: Paraherquamide A

Cat. No.: GC44563

Chemical Properties

Cas. No. 77392-58-6

SMILES CC(C=CO1)(C)OC2=C1C(NC([C@]34C[C@](CN(CC[C@]5(O)C)[C@]5(C6=O)C7)(N6C)[C@]7([H])C3(C)C)=O)=C4C=C2

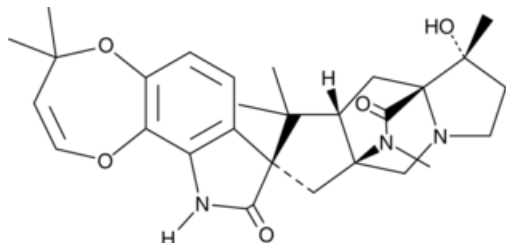
Formula C₂₈H₃₅N₃O₅ M.Wt 493.6

Solubility DMF: soluble, DMSO: Storage Store at -20°C
soluble, Ethanol: soluble, Methanol: soluble

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

Paraherquamide A is a mycotoxin anthelmintic originally isolated from *P. paraherquei*. It binds to acetylcholine receptors (IC₅₀ = 0.5 nM for head homogenates of *M. domestica*) and acts as an antagonist. Paraherquamide A is toxic to *C. elegans* (LD₅₀ = 2.5 µg/ml) and effective against *T. colubriformis* infection in gerbils when used at doses ranging from 0.39 to 200 mg/kg. It is toxic to mice (LD₅₀ = 14.9 mg/kg).

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

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