

Product Data Sheet

Product Name: Dinophysistoxin-1

Cat. No.: GC43470

Chemical Properties

Cas. No. 81720-10-7

SMILES O[C@H](CC[C@@H](C[C@@](C)(O)C(O)=O)O1)[C@@]1(C=C(C)C2O[C@]2([H])[C@H](C)/C=C/[C@@H]3O[C@@]4(O[C@]([C@@H]5O)([H])[C@@](O[C@@]([C@@H](O)C[C@@H]([C@@]6([H])O[C@]([C@@H]7C)(OCCC7)CC[C@H]6C)C)([H])C5=C)([H])CC4)CC3

Formula C45H70O13

M.Wt 819

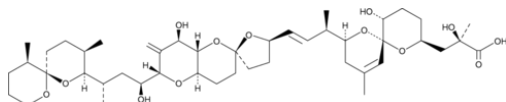
Solubility DMSO: Soluble, Ethanol: Soluble, Methanol: Soluble

Storage Store at -20°C, protect from light

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

Dinophysistoxin-1 is a marine toxin produced by dinoflagellates that is known to accumulate in shellfish and cause diarrhetic shellfish poisoning. It inhibits serine/threonine protein phosphatases 1 (PP1) and PP2A (IC₅₀ = 0.104 nM) and has been shown to promote cancer cell growth in tumor cell lines and animal models.

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

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