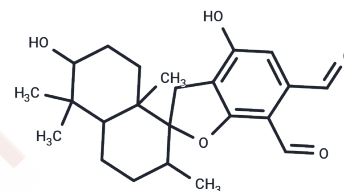


Mer-NF5003F

Chemical Properties

CAS No. : 149598-70-9
 Formula: C₂₃H₃₀O₅
 Molecular Weight: 386.48
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Mer-NF5003F (Stachybotrydial; F 1839M) is a sesquiterpene isolated from <i>Stachybotrys</i> , effective in inhibiting avian myeloblastosis virus (AMV) protease with an IC ₅₀ of 7.8 μM. It also inhibits sialyltransferases ST6N, ST3O, and ST3N with IC ₅₀ values of 0.61, 6.7, and 10 μg/mL, respectively, and fucosyltransferase with an IC ₅₀ of 11.3 μg/mL. Additionally, Mer-NF5003F exhibits in vitro activity against herpes simplex virus HSV-1 (IC ₅₀ =4.32 μg/mL) and multi-drug-resistant <i>Plasmodium falciparum</i> K1 strain (IC ₅₀ =0.85 μg/mL).
Targets(IC ₅₀)	HSV, Virus Protease

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5875 mL	12.9373 mL	25.8746 mL
5 mM	0.5175 mL	2.5875 mL	5.1749 mL
10 mM	0.2587 mL	1.2937 mL	2.5875 mL
50 mM	0.0517 mL	0.2587 mL	0.5175 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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