Data Sheet (Cat.No.T80001)

TargetMol

Majoranaquinone

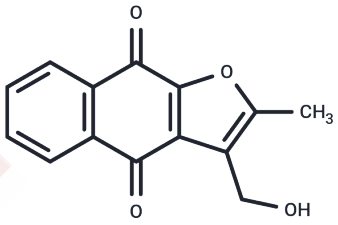
Chemical Properties

CAS No. : 1596355-59-7

Formula: C14H10O4

Molecular Weight: 242.23

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	Majoranaquinone demonstrates potent antibacterial activity against four Staphylococcus strains, one Moraxella strain, and one Enterococcus strain. It also acts as an effective efflux pump inhibitor in Escherichia coli ATCC 25922 and inhibits biofilm formation on both E. coli ATCC 25922 and E. coli K-12 AG100 [1].
Targets(IC50)	Antibiotic
In vitro	Majoranaquinone (compound 1) demonstrated significant antibacterial effects at concentrations ranging from 0.195 to 100 mM after 20 hours of exposure against four Staphylococcus strains, one Moraxella, and one Enterococcus [1]. Furthermore, when tested at 62.5-1000 μM over 48 hours, Majoranaquinone exhibited potent inhibitory activity against the efflux pump in Escherichia coli ATCC 25922 [1]. Additionally, at the same concentrations and duration, Majoranaquinone acted as an effective biofilm formation inhibitor in both E. coli ATCC 25922 and E. coli K-12 AG100 strains [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1283 mL	20.6415 mL	41.2831 mL
5 mM	0.8257 mL	4.1283 mL	8.2566 mL
10 mM	0.4128 mL	2.0642 mL	4.1283 mL
50 mM	0.0826 mL	0.4128 mL	0.8257 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.

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