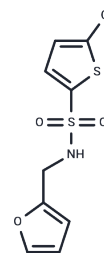


Antimicrobial agent-14

Chemical Properties

CAS No. :	380576-68-1
Formula:	C ₉ H ₈ ClNO ₃ S ₂
Molecular Weight:	277.75
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	Antimicrobial agent-14 is a benzyl thiophene sulfonamide derivative that is often used as an antimicrobial agent. Antimicrobial agent-14 has a MIC value of 200 µM against Campylobacter coli ATCC33559, which can be used to study bacterial foodborne gastroenteritis.
Targets(IC ₅₀)	Antibacterial
In vitro	Antimicrobial agent-14 (compound 10) exhibits an MIC greater than 200 µM against Campylobacter jejuni 81-176.[1]

Solubility Information

Solubility	DMSO: 112.5 mg/mL (405.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6004 mL	18.0018 mL	36.0036 mL
5 mM	0.7201 mL	3.6004 mL	7.2007 mL
10 mM	0.360 mL	1.8002 mL	3.6004 mL
50 mM	0.072 mL	0.360 mL	0.7201 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.

Reference

Deblais L, et al. Novel narrow spectrum benzyl thiophene sulfonamide derivatives to control Campylobacter. J Antibiot (Tokyo). 2019;72(7):555-565.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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