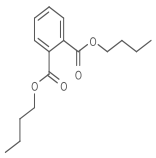
Data Sheet (Cat.No.TN1162)

TargetMol
A DRUG SCREENING EXPERT

1,2-Benzenedicarboxylic acid

Chemical Properties



CAS No.:	84-74-2
Formula:	C16H22O4
Molecular Weight:	278.4
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	1,2-Benzenedicarboxylic acid is one kind of allelochemical shows stronger allelopathic effect on itself than on wheat and pigeonpea.
Targets(IC_{50})	Antifection: None
In vitro	The compound was isolated by directing the fractionation of ethyl acetate extract of the air dried seeds and pod with microbial sensitivity test. The results of the antibacterial screening showed that the ethyl acetate extract of Acacia nilotica Linn exhibited the highest activities against the test microbes with zones of inhibition diameter ranging from 27-32mm against Salmonela typhi, Escherichia coli, Streptococcus feacalis, Staphylococcus aureus, Candida krusei and Shigella dysentriae[1]

Solubility Information

Solubility	Ethanol: 50 mg/mL (179.64 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.592 mL	17.96 mL	35.92 mL
5 mM	0.718 mL	3.592 mL	7.184 mL
10 mM	0.359 mL	1.796 mL	3.592 mL
50 mM	0.072 mL	0.359 mL	0.718 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Antimicrobial activity of 1,2-benzenedicarboxylic acid, butyldecyl ester isolated from the seeds and pods of Acacia nilotica LinnBasic Research Journal of Microbiology, 2016 June, 3(2): 08-11.

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