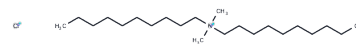


DDAC

Chemical Properties

CAS No. :	7173-51-5
Formula:	C ₂₂ H ₄₈ ClN
Molecular Weight:	362.08
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	DDAC (Quaternium 12), also known as Didecyldimethylammonium chloride, is a dialkyl-quaternary ammonium compound widely utilized in various products due to its bactericidal, virucidal, and fungicidal characteristics.
Targets(IC50)	Antibacterial
In vitro	DDAC (Didecyldimethylammonium chloride, DDAC) is a broad-spectrum bactericidal and fungicidal biocide that exhibits antimicrobial activity against several pathogens such as Staphylococcus aureus, Escherichia coli, Pseudomonas aeruginosa, Legionella pneumophila, Stachybotrys chartarum and enveloped and non-enveloped viruses[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (165.71 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	2.7618 mL	13.8091 mL	27.6182 mL
5 mM	0.5524 mL	2.7618 mL	5.5236 mL
10 mM	0.2762 mL	1.3809 mL	2.7618 mL
50 mM	0.0552 mL	0.2762 mL	0.5524 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.

Reference

Anderson SE, et al. Evaluation of the irritancy and hypersensitivity potential following topical application of didecyldimethylammonium chloride. J Immunotoxicol. 2016;13(4):557-566.

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