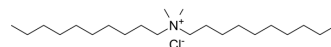


N-Decyl-N,N-dimethyldecan-1-aminium chloride

Cat. No.:	HY-W042181		
CAS No.:	7173-51-5		
Molecular Formula:	C ₂₂ H ₄₈ ClN		
Molecular Weight:	362.08		
Target:	Bacterial; Fungal		
Pathway:	Anti-infection		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (276.18 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	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
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.90 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.90 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.90 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	N-Decyl-N,N-dimethyldecan-1-aminium chloride (Didecyldimethylammonium chloride) is a dialkyl-quaternary ammonium compound that is used in numerous products for its bactericidal, virucidal and fungicidal properties ^[1] .
In Vitro	N-Decyl-N,N-dimethyldecan-1-aminium chloride (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] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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