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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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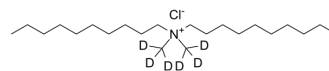
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N-Decyl-N,N-dimethyldecan-1-aminium-d₆ chloride

Cat. No.:	HY-W042181S
Molecular Formula:	C ₂₂ H ₄₂ D ₆ ClN
Molecular Weight:	368.11
Target:	Bacterial; Fungal; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-Decyl-N,N-dimethyldecan-1-aminium-d ₆ (chloride) is a deuterated labeled N-Decyl-N,N-dimethyldecan-1-aminium (chloride) ^[1] . 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 ^[2] .
In Vitro	<p>Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].</p> <p>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 <i>Staphylococcus aureus</i>, <i>Escherichia coli</i>, <i>Pseudomonas aeruginosa</i>, <i>Legionella pneumophila</i>, <i>Stachybotrys chartarum</i> and enveloped and non-enveloped viruses^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.

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

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