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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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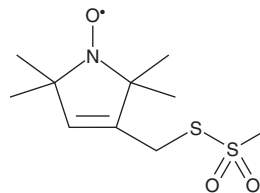
PRODUCT INFORMATION



MTSSL

Item No. 16463

CAS Registry No.: 81213-52-7
Formal Name: 2,5-dihydro-2,2,5,5-tetramethyl-3-
[[[(methylsulfonyl)thio]methyl]-1H-pyrrol-1-yloxy
MF: C₁₀H₁₈NO₃S₂
FW: 264.4
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years
Special Conditions: Light sensitive



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

MTSSL is supplied as a crystalline solid. A stock solution may be made by dissolving the MTSSL in the solvent of choice. MTSSL is soluble in organic solvents such as ethanol, methanol, and DMSO, which should be purged with an inert gas.

Description

MTSSL is a paramagnetic nitroxide spin label featuring a methanethiosulfonate group for site-directed spin labeling, particularly through disulfide linkages with cysteine residues on proteins.^{1,2} When combined with electron paramagnetic resonance spectroscopy, site-directed spin labeling is used to study the structural dynamics of proteins, including membrane proteins.^{1,3}

References

1. Perozo, E., Cortes, D.M., and Cuello, L.G. Structural rearrangements underlying K⁺-channel activation gating. *Science* **285**(5424), 73-78 (1999).
2. Gaponenko, V., Howarth, J.W., Columbus, L., *et al.* Protein global fold determination using site-directed spin and isotope labeling. *Protein Sci.* **9**(2), 302-309 (2000).
3. Tombolato, F., Ferrarini, A., and Freed, J.H. Dynamics of the nitroxide side chain in spin-labeled proteins. *J. Phys. Chem. B* **110**(51), 26248-26259 (2006).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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