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# DATASHEET

## MTSSL

### Product overview

<b>Name</b>	MTSSL
<b>Cat No</b>	HB3984
<b>Purity</b>	>98%
<b>Description</b>	Highly reactive, thiol-specific spin-label

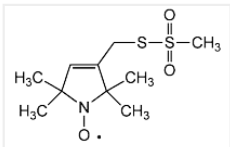
### Biological Data

<b>Biological description</b>	Highly reactive, thiol-specific spin-label. Specific conformational probe of thiol site structure by its minimal rotational freedom and distance from the covalent disulfide linkage to the macromolecule under study. Used to label cysteine residues in proteins (site-directed labeling, SDS-labeling). Allows protein structure and protein dynamics determination as well as the study of protein-protein and protein-oligonucleotide interactions.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(1-Oxyl-2,2,5,5-tetramethylpyrroline-3- methyl)methanethiosulfonate
<b>Molecular Weight</b>	264.3
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>10</sub> H <sub>18</sub> NO <sub>3</sub> S <sub>2</sub>
<b>CAS Number</b>	81213-52-7
<b>PubChem identifier</b>	0
<b>SMILES</b>	CC1(C)C=C(CS[S](C)(=O)=O)C(C)(C)N1[O]
<b>InChiKey</b>	BLSCGBLQCTWVPO-UHFFFAOYSA-N
<b>Appearance</b>	Yellow crystalline solide