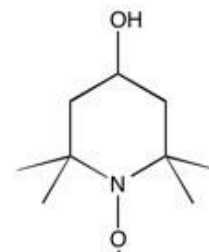


Catalog	Unit
TBI2471-1G	1 g
TBI2471-5G	5 g

### Product Details

**Formal Name:** 4-Hydroxy-2,2,6,6-tetramethylpiperidine-1-oxyl  
**Alternate Names:** 4-Hydroxy TEMPO  
**Molecular Formula:** C<sub>9</sub>H<sub>18</sub>NO<sub>2</sub>  
**Formula Weight:** 172.24  
**CAS Number:** 2226-96-2  
**Purity:** >98%  
**Formulation:** Powder  
**Solubility:** Soluble in DMSO (25 mg/ml) or in Ethanol (17 mg/ml)  
**Storage:** -20°C  
**Stability:** ≥ 2 years.



### Applications

SOD mimetic

### Functions

TEMPOL (2226-96-2) is a superoxide dismutase (SOD) mimetic. Displays protective effects in CNS kidney and radiation damage. Inhibits superoxide anion-induced inflammatory pain in mice. Blunts diabetes-induced upregulation of NADPH oxidase and ER stress in a rat model of diabetic nephropathy. Cell permeable.

### Application Procedures

First dissolved in DMSO (25 mg/ml) or in ethanol (17 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

### Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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