

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: C₉H₁₈NO₂

Formula Weight: 172.24

CAS Number: 2226-96-2

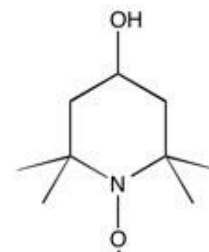
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 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 (up to 25 mg/ml) or in ethanol (up to 17 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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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