

Product Information

TEMPOL, Purity $\geq 98\%$

Cat. No.: X24-09-YM1199

Size: 250 mg; 500 mg; 1 g; 2 g

CAS Number: 2226-96-2

Synonym: 2226-96-2

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	TEMPOL, soluble in DMSO, water, and ethanol, is a superoxide dismutase mimetic that belongs to a class of non-thiol-containing radiation protectors. The molecular weight of the compound is 172.2, and its molecular formula is C ₉ H ₁₈ NO ₂ .
Molecular Weight	172.2
Molecular Formula	C ₉ H ₁₈ NO ₂
Isomeric SMILES	<chem>CC[C@H]1/C=C/[C@H](C/C=C/C=C/C(=O)O[C@@H](C/C=C/C=C/[C@@H]1O[C@H]2[C@H]([C@H]([C@@H](C(O2)(C)C)OC(=O)C(C)C)O)\C)C)[C@@H](C)O)\CO[C@H]3[C@H]([C@H]([C@@H]([C@H](O3)C)OC(=O)C4=C(C(=C(C(=C4O)Cl)O)Cl)CC)O)OC)O)\C</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO: 33 mg/mL (191.58 mM); Water: 33 mg/mL (191.58 mM); Ethanol: 33 mg/mL (191.58 mM); <i>In vivo</i> : Saline, 28 mg/mL
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	TEMPOL can be used for its neuroprotective and cardioprotective effects.
Storage	Store at -20°C, and keep desiccated.