



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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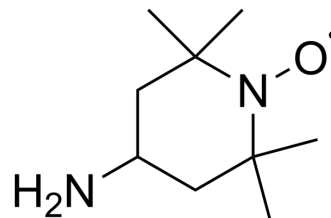
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4-Amino-tempo

Cat. No.:	HY-W002004
CAS No.:	14691-88-4
Molecular Formula:	C ₉ H ₁₉ N ₂ O
Molecular Weight:	171.26
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (1167.82 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.8391 mL	29.1954 mL	58.3908 mL
	5 mM		1.1678 mL	5.8391 mL	11.6782 mL
	10 mM		0.5839 mL	2.9195 mL	5.8391 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

4-Amino-TEMPO can be used as a spin label for detecting radicals and the damage caused by them. 4-Amino-TEMPO possesses superoxide dismutase-mimetic activity, enabling it to easily penetrate cells and protect them from oxidative damage induced by H₂O₂. Additionally, 4-Amino-TEMPO exhibits significant radiation protective properties, effectively safeguarding DNA from oxidative stress-induced damage caused by UV exposure due to its ability to maintain a positive charge. Furthermore, 4-Amino-TEMPO is a highly selective oxidation catalyst widely used in the research and development of various specialty chemicals, including fragrances, pesticides, and others ^[1].

REFERENCES

[1]. Żamojć K, Zdrowowicz M, Hać A, et al. Dihydroxy-substituted coumarins as fluorescent probes for nanomolar-level detection of the 4-amino-TEMPO spin label[J]. International journal of molecular sciences, 2019, 20(15): 3802.

Caution: Product has not been fully validated for medical applications. For research use only.

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