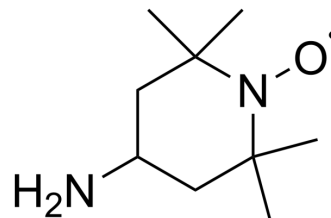


4-Amino-tempo

Cat. No.:	HY-W002004
CAS No.:	14691-88-4
Molecular Formula:	C ₉ H ₁₉ N ₂ O
Molecular Weight:	171.26
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



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]. Źamojć 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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