PRODUCT INFORMATION

4-palmitamido TEMPO
Item No. 25995

CAS Registry No.: 22977-65-7
Formal Name: 2,2,6,6-tetramethyl-4-[(1-oxohexadecyl)amino]-1-piperidinyloxy
Synonyms: C16-amido TEMPO
MF: C25H49N2O2
FW: 409.7
Purity: ≥95%
UV/Vis.: λmax*: 210 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

4-palmitamido TEMPO is supplied as a solid. A stock solution may be made by dissolving the 4-palmitamido TEMPO in the solvent of choice. 4-palmitamido TEMPO is soluble in organic solvents such as ethanol and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of 4-palmitamido TEMPO in these solvents is approximately 12 and 14 mg/ml, respectively. 4-palmitamido TEMPO is slightly soluble in DMSO.

4-palmitamido TEMPO is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 4-palmitamido TEMPO should first be dissolved in DMF and then diluted with the aqueous buffer of choice. 4-palmitamido TEMPO has a solubility of approximately 0.3 mg/ml in a 1:2 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

4-Palmitamido TEMPO is a lipid-soluble spin label. It incorporates into vesicles and cell membranes and has been used to study the entrapment of molecules within phosphatidylcholine vesicles.

References