PRODUCT INFORMATION

16-doxyl Stearic Acid
Item No. 20355

CAS Registry No.: 53034-38-1
Formal Name: 2-(14-carboxytetradecyl)-2-ethyl-4,4-dimethyl-3-oxazolidinylxoy
Synonym: 16-DXA
MF: C_{22}H_{42}NO_{4}
FW: 384.6
Purity: ≥98%
UV/Vis.: λ_{max} = 230 nm
Supplied as: A crystalline 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

16-doxyl Stearic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the 16-doxyl stearic acid in the solvent of choice. 16-doxyl Stearic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 16-doxyl stearic acid in these solvents is approximately 20, 10, and 30 mg/ml, respectively.

Description

16-doxyl Stearic acid is a form of stearic acid (Item No. 10011298) that contains a 4,4-dimethyl-3-oxazolidinylxoy (DOXYL) group, creating a hydrophobic spin label. It is commonly used to study molecular aspects of membranes and hydrophobic proteins. 1-3

References