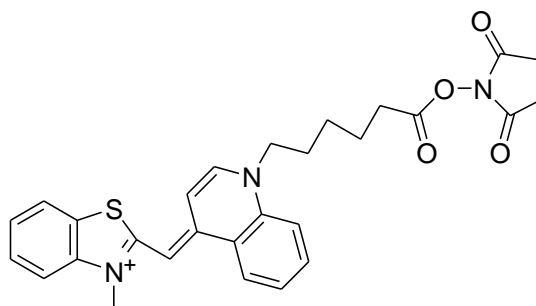


PRODUCT AND SAFETY DATA SHEET

PRODUCT NAME: TO Succinimidyl ester

CATALOG # 40073

MOLECULAR INFORMATION: C₂₈H₂₈N₃O₄S
MWt: 503



PROPERTIES:

Color & Form	Orange solid
Solubility	Soluble in DMSO or DMF
Absorption / Emission	512nm / 533 nm (with DNA)
Correction factor 260nm	0.067
Correction factor 280nm	0.136

STORAGE AND HANDLING: Stored desiccated at -20°C and protect from light, especially when in solution.

APPLICATION: The amine reactive succinimidyl ester of TO (thiazole orange) can be conjugated to peptides, proteins, drugs, polymeric materials and biomolecules with primary amine groups. The conjugates are expected to be essentially nonfluorescent until they are able to complex with nucleic acids, resulting in green fluorescence. The conjugates might be useful for studies of nucleic acid binding to various biomolecules, such as DNA-binding proteins. It is also possible that conjugates of other biomolecules might be capable of monitoring their transport into the nucleus. TO dye conjugates of solid or semisolid matrices, such as microspheres, magnetic particles or various resins, might be useful for the detection or affinity isolation of nucleic acids.

TOXICITY: Unknown

FIRST AID: Potentially harmful. Avoid prolonged or repeated exposure. Avoid getting in eyes, on skin, or on clothing. Wash thoroughly after handling. If eye or skin contact occurs, wash affected areas with plenty of water for 15 minutes and seek medical advice. In case of inhaling or swallowing, move individual to fresh air and seek medical advice immediately.

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