



Genemed Synthesis, Inc.

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Cyanine 3 acid, mono-NHS ester

Cat #	FD-1051	Unit Size	1 mg
MW	727.84		
Ex (nm)	548	Em (nm)	562
Solvent	DMF	Storage	F/D/L

Cyanine dyes are a series of reactive fluorescent dyes that are widely used for labeling peptides, proteins, nucleotides and nucleic acids. Cyanine dyes are a single family of bright fluorescent signals with good water-solubility. Unlike fluoresceins and hydroxycoumarins, their excitations and emissions are pH-independent. Among the cyanine dyes, Cyanine 3 dyes have fluorescence enhanced upon conjugating to proteins while other cyanine have fluorescence reduced due to the quenching effect of electron-rich amino acids (such as Trp, His and Tyr etc) in proteins. The good water solubility of the cyanine dyes enables labeling reactions conveniently run in aqueous media without using organic solvents (such as DMF or DMSO) as co-solvent. The low non-specific binding of resultant conjugates facilitate the assay development. The wide range of excitation and emission wavelengths of cyanine dyes makes them available for versatile fluorescence instruments.