



Genemed Synthesis, Inc.

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Super Fluor™ 647 acid

Cat #	FD-1009	Unit Size	5 mg
MW			
Ex (nm)	651	Em (nm)	668
Solvent	DMF	Storage	F/D/L

Cy5 is the most preferred dye for preparing near-infrared fluorescent bioconjugates. Compared to the spectra of Cy5 dyes, the spectra of Superfluor 647 conjugates are only slightly red-shifted. The little change in absorption spectrum makes Superfluor 647 dyes an optimal match to filters designed for Cy5 dyes. Additionally total fluorescence of the secondary antibody conjugates of Superfluor 647 dyes is significantly higher than that of Cy5 conjugates. Unlike Cy5 dyes, Superfluor 647 dyes have very little change in absorption or fluorescence spectra when conjugated to most proteins, oligonucleotides and nucleic acids, thus yielding greater total fluorescence at the same degree of substitution. Our in-house data indicated that Superfluor 647 is superior to Cy5 in fluorescence polarization-based assays