

AF 647 NHS Ester

Article number: KF-YG0705

specification: 0.5 μmol /1 μmol /1mg

Product Application

AF647 dye is a bright far-red fluorescent dye, ideal for use with 594 nm or 633 nm. AF647 dye is insensitive to pH over a wide molar range, so it produces stable signals in imaging and flow cytometry. The fluorescence of this long-wavelength dye is invisible to the human eye, but is easily detected by most imaging systems. AF 647 has a high fluorescence quantum yield and photostability, allowing for high-sensitivity detection of low-concentration biological structures. AF647 dye molecules can be conjugated to proteins at high molar ratios without significant self-quenching, resulting in brighter conjugates and sensitivity detection results. The NHS ester (or succinimidyl ester) of AF 647 is the most commonly used tool for conjugating this dye to proteins or. NHS esters can be used to label primary amines (R-NH₂) on proteins, amine-modified oligonucleotides, and other amine-containing molecules. The resulting conjugates exhibit fluorescence and higher photostability than other fluorophore conjugates with similar spectra.





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Storage and transportation

Transport conditions: Cold

Storage conditions: -20° C, dry, protected from light.

