

PE-iFluor™ 594 Tandem

Catalog number: 2600

Unit size: 1 mg

Product Details

Storage Conditions Refrigerated (2-8 °C), Minimize light exposure

Expiration Date 6 months upon receiving

Chemical Properties

Appearance Solid

Soluble In Water

Spectral Properties

Excitation Wavelength 566 nm

Emission Wavelength 606 nm

Applications

Tandem dyes are a unique class of fluorescent molecules that consist of two different covalently linked fluorophores, a donor (e.g. PE or APC) and a longer-wavelength emitting fluorescence acceptor (e.g. Texas Red, Cy5, Cy7, iFluor™ 594 or iFluor™ 750). PE-iFluor™ 594 is a superior replacement to the commonly used PE-Texas Red tandem with significantly improved FRET efficiency and signal/background ratio. Its primary absorption peak is at 565 nm with emission peak around 610 nm. AAT Bioquest also offers a unique preactivated PE-iFluor™ 594 to facilitate the PE- iFluor™ 594 tandem conjugation to antibodies and other proteins such as streptavidin and other secondary reagents. Our preactivated PE-iFluor™ 594 tandem is ready to conjugate, giving much higher yield than the conventionally tedious SMCC-based conjugation chemistry. In addition, our preactivated PE tandems are conjugated to a protein via its amino group that is abundant in proteins while SMCC chemistry targets the thiol group that has to be regenerated by the reduction of antibodies.