

**zFluor™ 635 succinimidyl ester**Catalog number: 1501  
Unit size: 1 mg**Product Details**

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Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

**Chemical Properties**

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Appearance	Solid
Molecular Weight	1336.89
Soluble In	DMSO

**Spectral Properties**

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Excitation Wavelength	667 nm
Emission Wavelength	692 nm

**Applications**

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Our zFluor™ serial dyes are developed to have the possibly highest photostability at a given wavelength compared to the other similar wavelength dyes on the market. zFluor™ 635 has similar spectral properties to the popular Cy5® (GE Healthcare) and Alexa Fluor® 647 (ThermoFisher). Its high thermal and photostability makes it an excellent choice for single-molecule detection applications and high-resolution microscopy such as PALM, dSTORM and STED. Under the same test conditions, zFluor™ 635 has much higher ozone stability than Cy5® and Alexa Fluor® 647, making it a much better choice for microarray and other biochip-based applications. This feature is extremely useful for fluorescence in-situ hybridization (FISH). In addition, zFluor™-labeled oligonucleotides and peptides are much brighter and more photostable than the ones labeled by Alexa Fluor® 647 and Cy5®. Similarly, zFluor™ 635-labeled oligos demonstrated higher signals than the corresponding conjugates prepared with either Cy5® or Alexa Fluor® 647 in our qPCR tests. The absorption and fluorescence of our zFluor™ 635 dyes are independent of pH in the range of pH 2 to 11. They are well excited at 633 nm of He-Ne laser, the 647 nm line of the Krypton-Ion laser or a diode-laser.