

Product number: K8-1261
Product name: Square-650-mono-NHS

General Data

Molecular Mass: 637.79

Solubility: Chloroform, Acetone, Alcohol, DMF, DMSO

Insoluble: Water

Storage: Store in absence of light, desiccate and refrigerate

Description

Hydrophobic, amine-reactive fluorescent label containing one reactive NHS-ester group.

Applications

- Covalent labeling of amino-modified lipids or oligonucleotides
- Resonance Energy Transfer (RET) based applications
- Homogeneous assays

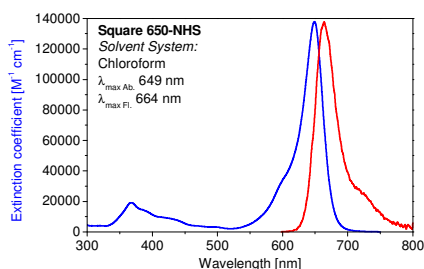
Advantages

- Perfectly suited for excitation with the 380, 404, and 635-nm diode lasers and UV light
- Sensitive; high extinction coefficients and quantum yields
- Quantum yields increase upon covalent or non-covalent association with biomolecules
- pH-insensitive between pH 3 and pH 10
- High photostability; e.g. compared to fluorescein or Cy5TM
- Low molecular weight — **Square** dyes do not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of proteins, amino-modified oligonucleotides and amino-modified lipids

Spectral Data

Solvent	Absorption max. [nm]	Extinction Coefficient [$M^{-1}\cdot cm^{-1}$]	Fluorescence* max. [nm]	Quantum Yield [%]
Chloroform	649	138,000	664	17

* Excitation at 620 nm



Absorption and fluorescence spectra of **Square 650-NHS** in chloroform