**SETA**
**BioMedicals**
http://www.setabiomedicals.com
e-mail: info@setabiomedicals.com

# *Product number:* K8-1446
# *Product name:* Seta-700-mono-NHS

## General Data

| | |
|---|---|
| ***Molecular Mass:*** | 700.74 |
| ***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 NHS-ester group.

## Applications

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

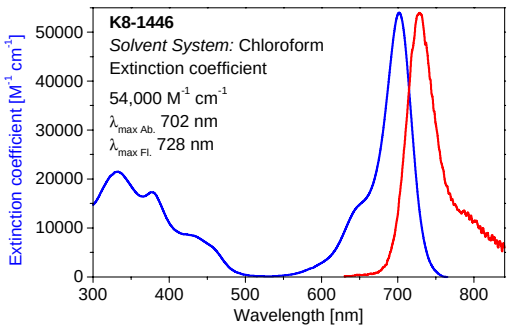
## Advantages

- Perfectly suited for excitation with the 380, 404, 635, 670-nm diode lasers and UV light
- Sensitive; high extinction coefficients and quantum yields
- Quantum yields increase upon covalent and non-covalent association with biomolecules
- pH-insensitive between pH 3 and pH 10
- High photostability; e.g. compared to fluorescein or **Cy5**™
- Low molecular weight — ***Seta*** dyes do not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of amino-modified oligonucleotides and amino-modified lipids

## Spectral Data

| Solvent | Absorption max. [nm] | Extinction Coefficient [$M^{-1} \cdot cm^{-1}$] | Fluorescence[1] max. [nm] | Quantum Yield [%] |
|---|---|---|---|---|
| **Chloroform** | 702 | 54,000 | 728 | 22 |
| | | | | |

[1] Excitation at 630 nm




Absorption and fluorescence spectra of **K8-1446** in chloroform