

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : Flamma®594 NA NHS ester
- Catalog Number : KNS1001
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Purple Solid
- Storage Conditions : Protect from Light at -20°C

2. Additional Information

- Fluorophore Label : Flamma®594 NA
- Reactive Group : NHS ester
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Weight : 817.95 g/mol
- Excitation_{Max} : 583 ± 3 nm
- Emission_{Max} : 603 ± 4 nm
- Extinction Coefficient : ≥ 92,000 /cm·M

3. Description

Flamma Fluors 594NA NHS ester is a reactive form of bright yellow fluorescent dye that analogous to Texas Red and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 583/603 nm, similar to that of Texas Red-X. Flamma 594NA might be excited using 568 or 578 nm laser lines and displays excellent optical property. Flamma 594NA dye can be conjugated into low-abundance biomolecules or incorporated into oligonucleotide synthesis as a fluorescence label. NHS esters readily react with amino groups of proteins, i.e. the ε-amino groups of lysine, or amine terminus of modified nucleotides to form a chemically stable amide bond between dye and the biomolecule. We offer Flamma Fluors 594NA NHS ester for labeling of amino-modified oligonucleotide in solid phase oligonucleotide synthesis.