

# Product Data Sheet

Date of Issue: 26 Nov 2019

## 1. Product Information

- Product Name : Flamma®552 NA NHS ester
- Catalog Number : PNS1122
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Red Solid
- Storage Conditions : Protect from Light at -20°C

## 2. Additional Information

- Fluorophore Label : Flamma®552 NA
- Reactive Group : NHS ester
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Weight : 555 g/mol
- Excitation<sub>Max</sub> : 553 ± 3 nm
- Emission<sub>Max</sub> : 570 ± 4 nm
- Extinction Coefficient : ≥ 87,000 /cm·M

## 3. Description

Flamma Fluors 552NA NHS ester is a reactive form of bright yellow fluorescent dye that analogous to cyanine 3 and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 553/570 nm, similar to that of Alexa 555, DyLight 549, ATTO 550 and Cy3. Flamma 552 might be excited using 532, 543, 546 or 555 nm laser lines and displays excellent optical property. Flamma 552NA 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 552NA NHS ester for labeling of biomolecules and amino-modified oligonucleotide in solid phase oligonucleotide synthesis.