

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : FAM NHS ester
- Catalog Number : CWS1025
- Packing Unit : 25 mg
- Appearance : Orange Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

- Fluorophore Label : FAM
- Reactive Group : NHS ester
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Formula : $C_{26}H_{21}NO_9$
- Molecular Weight : 473.39 g/mol
- Excitation $_{Max}$: 494 ± 3 nm
- Emission $_{Max}$: 520 ± 4 nm
- Extinction Coefficient : $\geq 64,000$ /cm·M

3. Description

FAM NHS ester is a reactive form of bright green dye used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 494/518 nm, similar to that of Alexa 488 and Cy2. FAM might be excited using 488 nm laser line and displays good optical property. NHS esters readily react with amine-modified oligonucleotides or amino groups of proteins, i.e. the ϵ -amino groups of lysine or the amine terminus of nucleotides to form a chemically stable amide bond between dye and the biomolecule. We offer FAM NHS ester for labeling of antibodies, peptides, proteins and nucleotide.