

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : FAM Sulfo-NHS ester
- Catalog Number : CWSN1025
- Packing Unit : 25 mg
- Appearance : Yellow Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

- Fluorophore Label : FAM
- Reactive Group : Sulfo-NHS ester
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Formula : $C_{25}H_{17}NO_{12}S$
- Molecular Weight : 553 g/mol
- Excitation $_{Max}$: 494 ± 3 nm
- Emission $_{Max}$: 520 ± 4 nm
- Extinction Coefficient : $\geq 47,000$ /cm·M

3. Description

FAM Sulfo-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 494/520 nm, similar to that of Alexa 488 and Cy2. FAM might be excited using 488 nm laser line and displays good optical property. Sulfo-NHS esters have higher water solubility than NHS esters, thus they do not need organic co-solvent and 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 stable amide bond between dye and the biomolecule. We offer FAM Sulfo-NHS ester for labeling of antibodies, peptides, proteins and nucleotide.