

## **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

<ul> <li>Fluorophore Label :</li> </ul>	FAM
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- 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 <sub>Max</sub> :  $520 \pm 4 \text{ nm}$
- Extinction Coefficient :  $\geq 64,000 / \text{cm} \cdot \text{M}$

## 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.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. MATERIAL SAFETY DATA: Review the complete Material Safety Data Sheet before use Material Safety Data Sheet (MSDS), Certificate of Analysis (COA) and Technical Information are available at http://www.bioacts.com or upon request.