

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : Flamma® FAM Isothiocyanate
- Catalog Number : CWI1003
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Yellow Solid
- Storage Conditions : Protect from Light at 4°C

2. Additional Information

- Fluorophore Label : Flamma® FAM
- Reactive Group : Isothiocyanate
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Weight : 462.48 g/mol
- Excitation_{Max} : 492 ± 3 nm
- Emission_{Max} : 519 ± 4 nm
- Extinction Coefficient : ≥ 59,000 /cm·M

3. Description

FAM Isothiocyanate 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 492/519 nm, similar to that of Alexa 488 and Cy2. FAM might be excited using 488 nm laser line and displays good optical property. Isothiocyanates are moderately reactive but quite stable in water and most organic solvents. Isothiocyanates react to primary amine to form reasonably stable thiourea linkage. Whereas labeling of protein with NHS esters can typically be done at pH 8.3, conjugation for isothiocyanates usually require pH above 9. We offer FAM isothiocyanate for labeling of antibodies, peptides, proteins and nucleotide.