

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : FAM Vinylsulfone
- Catalog Number : CWA1020
- Packing Unit : 25 mg
- Appearance : Yellow Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : FAM
- Reactive Group : Vinylsulfone
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Formula : $C_{25}H_{21}NO_8S$
- Molecular Weight : 495.1 g/mol
- Excitation $_{Max}$: 494 ± 3 nm
- Emission $_{Max}$: 520 ± 4 nm
- Extinction Coefficient : $\geq 58,000$ /cm·M

3. Description

FAM Vinylsulfone is pH insensitive reactive form of bright green dye used to generate a stable fluorescence signal in bioimaging. Vinylsulfone reactive group, developed by BioActs' leading technology, is stable in a wide range of pH and at the high temperature. 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. Vinylsulfones readily react with primary amines of amino-modified oligonucleotides or of proteins to form a stable amino linkage between dye and the biomolecule. We offer FAM vinylsulfone for labeling of antibodies, peptides, proteins and nucleotide.