

Product Data Sheet

Date of Issue: 5 Oct 2021

1. Product Information

- Product Name : Flamma® 496 Vinylsulfone
- Catalog Number : CWA1001
- 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® 496
- Reactive Group : Vinylsulfone
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Formula : $C_{25}H_{19}F_2NO_8S$
- Molecular Weight : 531.48 g/mol
- Excitation $_{Max}$: 496 ± 3 nm
- Emission $_{Max}$: 520 ± 4 nm
- Extinction Coefficient : $\geq 66,000$ /cm·M

3. Description

Flamma® Fluors 496 Vinylsulfone is pH insensitive reactive form of bright green dye that 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 496/516 nm, similar to that of Alexa 488. Flamma 496 might be excited using 488 nm laser line and displays excellent optical property. Flamma 496 can be conjugated to low-abundance of biomolecules with great sensitivity and high d/P ratio, enabling sensitive detection. 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 Flamma 496 Vinylsulfone for labeling of antibodies, peptides, proteins, ligands and amplification substrates optimized for cellular labeling and detection.