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Product Data Sheet

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1. Product Information

- Product Name : Flamma® 774 Sulfo-NHS ester
- Catalog Number : PWSN1603
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at -20 ℃

2. Additional Information

- Fluorophore Label : Flamma® 774
- Reactive Group : Sulfo-NHS ester
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Weight : 1106 g/mol
- Excitation $_{Max}$: 774 ± 3 nm
- Emission $_{Max}$: 800 ± 4 nm
- Extinction Coefficient : ≥ 182,000 /cm·M

3. Description

Flamma® Fluors 774 Sulfo-NHS ester is a reactive form of near infrared (NIR) fluorescent dye and used to generate a stable fluorescence signal with high signal-to-noise ratio. The maxima of Ex/Em values are at 774/806 nm, similar to that of IRDye 800, Cy7.5 and CF770. Flamma 774 might be excited using 750 nm laser line or dye-pumped laser excitation and the emission occurs at NIR region. Flamma Fluors 774 is ideal for protein, antibody and nucleic acid labeling for in vitro imaging and other fluorescence detection methods. 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 Flamma Fluors 774 Sulfo-NHS ester for labeling of antibodies, peptides, proteins, ligands, and in vivo NIR imaging.

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.**