

Product Data Sheet

Date of Issue: 8 Oct 2021

1. Product Information

- Product Name : qFlamma® Black01 Sulfo-NHS ester
- Catalog Number : QWSN1001
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

- Fluorophore Label : Flamma® Black01
- Reactive Group : Sulfo-NHS ester
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Weight : 898.89 g/mol
- Excitation_{Max} : 484 ± 3 nm
- Emission_{Max} : 400 ~800 nm
- Extinction Coefficient : ≥ 59,000 /cm·M

3. Description

qFlamma® Black01 Sulfo-NHS ester is an amine reactive form of universal dark quencher that the range of absorption covers from 400 to 800 nm with no native fluorescence. Black01 quencher displays high absorption coefficient, superb stability and aqueous solubility. Sulfo-NHS esters have higher water solubility than NHS esters, thus they do not need organic co-solvent and readily react with amino groups of probes, peptides or the amine terminus of nucleotides to form a chemically stable amide bond between the quencher and the biomolecule. We offer qFlamma® Black01 Sulfo-NHS ester as a universal quencher in the construction of a variety of hybridization and custom-synthesized activatable probes for multiplexed bio-analysis, PCR, nucleic acid hybridization, etc.