

Product number: K8-2602
Product name: SQ-750-di-NHS

General Data

- Molecular Mass:** 1325.46
- Solubility:** Water, Alcohol, DMF, DMSO
- Insoluble:** Chloroform, Toluene
- Storage:** Store out of light, desiccated and refrigerate

Description

"Dark acceptor" for FRET-based systems with Cy5™, Cy5.5™, Cy7™, and Alexa 680™

Amine-reactive quencher containing two reactive NHS-ester groups for labeling of molecular beacons, linear probes, and amino-modified oligos

Applications

- Hybridization Assays
- Real-time PCR
- SNPs detection

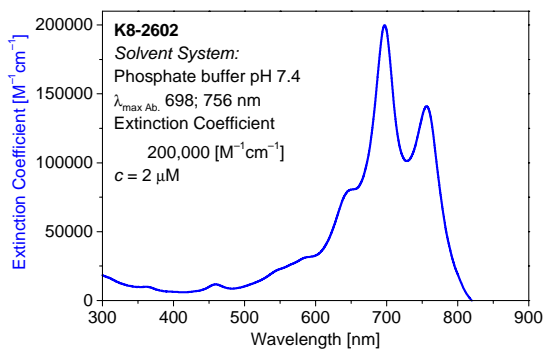
Advantages

- pH-insensitive between pH 3 and pH 10
- Highly water-soluble; label does not alter the solubility of bioconjugates
- True dark quenchers — no residual fluorescence

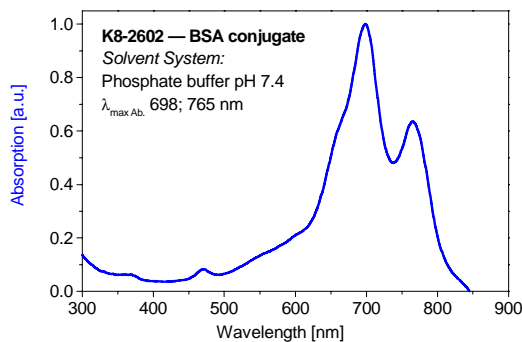
Spectral Data

Solvent System: water

Sample	Dye-to-protein Ratio	Absorption max. [nm]	Extinction Coefficient [M ⁻¹ ·cm ⁻¹]
Free dye	—	756	200,000
BSA conjugate	0.6	765	



Absorption spectrum of **K8-2602** in phosphate buffer (pH 7.4)



Absorption spectrum of **K8-2602 — BSA conjugate** in phosphate buffer (pH 7.4, Dye-to-protein ratio 0.6)