

**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 in absence of light, desiccated and refrigerate

## Description

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

Amine-reactive quencher containing two reactive NHS-ester groups for labeling of proteins, antibodies and other high molecular-weight biomolecules

## Applications

- FRET

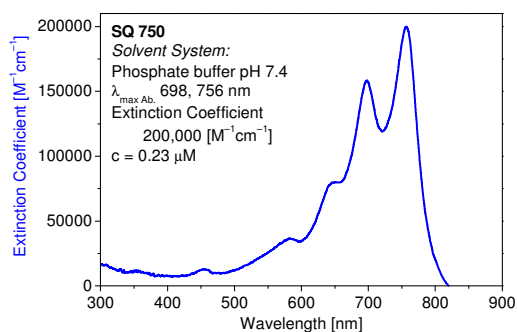
## Advantages

- Highly efficient quencher with a **molar extinction coefficient of 200,000 [M<sup>-1</sup>.cm<sup>-1</sup>]**
- Highly water-soluble; label does not alter the solubility of bioconjugates
- True dark quencher — minimal residual fluorescence

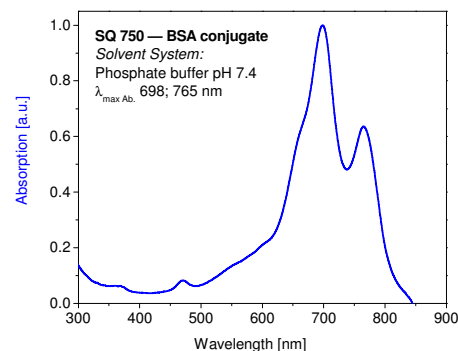
## Spectral Data

**Solvent System:** water

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



Absorption spectrum of **SQ 750** in phosphate buffer (pH 7.4)



Absorption spectrum of **SQ 750 — BSA conjugate** in phosphate buffer (pH 7.4, Dye-to-protein ratio 0.6)