

General Data

- Molecular Mass:** 723.80
- Solubility:** water, DMF, DMSO
- Insoluble:** chloroform, toluene
- Storage:** Store in absence of light, desiccated and refrigerated

Description

- Amine-reactive quencher containing one reactive NHS-ester group for labeling of proteins, peptides, molecular beacons, linear probes, and amino-modified oligonucleotides.

Applications

- "Dark acceptor" for FRET-applications in combination with Seta-632, Seta-633, Seta-646, Seta-660, Seta-670, Seta-700, SeTau-647, Cy5TM, Cy5.5TM, Cy7TM, Alexa 647TM, Alexa 660TM and Alexa 680TM as fluorescent donors.
- Hybridization Assays.
- Real-time PCR.
- SNPs detection

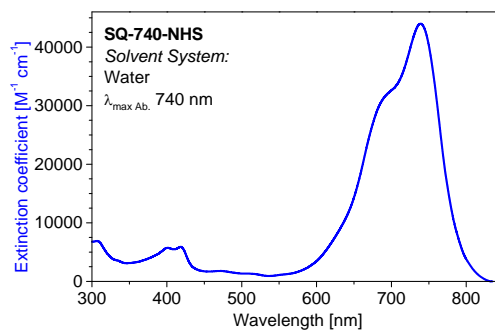
Advantages

- pH-insensitive between pH 3 and pH 10
- Water-soluble; label does not alter the solubility of bioconjugates.
- True dark quencher — no residual fluorescence.

Spectral Data

Solvent System: phosphate buffer pH 7.4

Sample	Absorption max. [nm]	Extinction Coefficient [M ⁻¹ cm ⁻¹]
Free dye	740	44,000



Absorption spectrum of **SQ-740-NHS** in water