

Product number: K8-1922 Product name: SQ-780-NHS

http://www.setabiomedicals.com e-mail: info@setabiomedicals.com

General Data

Molecular Mass: 968.19

	838.95 (protonated)
Solubility:	Alcohol, chloroform, DMF, DMSO
Insoluble:	Hexane, toluene
Storage:	Store out of light, desiccated and refrigerate

Description

- Amine-reactive, non-fluorescent quencher containing one reactive NHS-ester group
- Very broad visible-wavelength absorption spectrum
- Efficient energy transfer acceptor for NIR-fluorescent dyes (Cy5[™], Cy5.5[™], Cy7[™], and Alexa 680[™]) in FRET applications

Applications

- Covalent labeling of proteins, peptides, amino-modified DNA and amino-modified oligonucleotides
- Energy Transfer (RET) acceptor for molecular beacons and other FRET based applications
- Real-time PCR
- Homogeneous Assays

Advantages

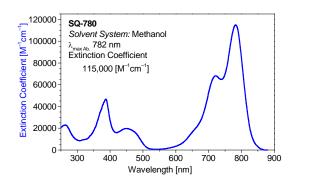
- pH-insensitive between pH 3 and pH 10
- Low molecular weight SQ dyes do not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of proteins, amino-modified DNA probes and amino-modified oligonucleotides

Spectral Data

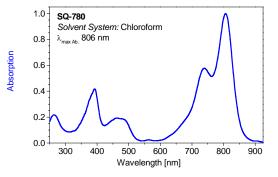
Sample	Absorption Max. [nm]	Extinction Coefficient [M ⁻¹ cm ⁻¹]
Free dye in methanol	782	115,000
Free dye in chloroform	806	
BSA conjugate	710, 792	



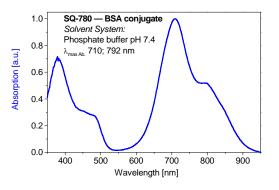
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Absorption spectrum of **SQ-780** in methanol



Absorption spectrum of SQ-780 in chloroform



Absorption spectrum of **SQ-780** — **BSA conjugate** in phosphate buffer (pH 7.4, Dye-to-protein ratio 0.4)