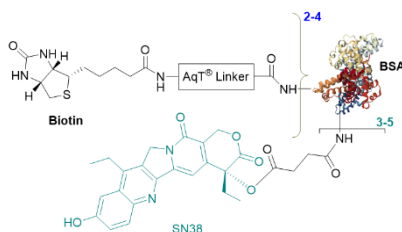


Certificate of Analysis

Description of the Material:

- (a) Chemical Name: AqT® Biotin-BSA-SN38
- (b) Chemical Structure:



- (c) Molecular Weight: ~73 KDa
- (d) Appearance: colorless-to-white lyophilized powder.
- (e) Amount: each tube contains 100 µg (0.1 mg) or 500 µg (0.5 mg) of AqT® Biotin-BSA-SN38
- (f) Reconstitution: dissolve in 60.5 µL (for 100 µg) 302 µL (for 500 µg) of deionized water to achieve 1.66 mg/mL in 20 mM citrate buffer, pH 6.4 containing sugar-based stabilizers (no preservatives).

SKU Code and Batch Number:

- (a) SKU Code: CM86158-100UG, CM86158-500UG
- (b) Lot Number: S660.S11.0428F

Purity, UV/Vis, MS, and Loading:

- (a) HPLC analysis: ≥99% of conjugates, free of any unreacted AqT® Biotin and/or SN38
- (b) SN38 Loading: 4.36 (by UV ratio of 380/280 nm), 3.69 (by SEC Ratio of 380/280 nm), and 3.12 by MALDI-TOF MS Data.
- (c) Biotin Loading: 2.3 by Biotin Assay (HABA).

Intended Use: For research and development use only.

Hazard Information: See SDS.

Shelf life, Storage/Stability: The conjugate is fairly stable as solid at ambient temperature. Recommended long-term storage is at -20°C or preferably in a -80°C freezer. After reconstitution, the stock solution could be used up to 1 week if stored at 2–8°C.

Expiration date: 1 year after receiving if stored at -20°C or below.

Data Appendix: Size exclusion HPLC Data.

Figure 1. Overlay size exclusion HPLC spectrum of BSA (before labeling, green trace) and BSA-SN38 Conjugate (after SN38 labeling, red trace) and AqT[®] Biotin-BSA-SN38 Conjugate (after AqT[®] Biotin labeling, blue trace).

