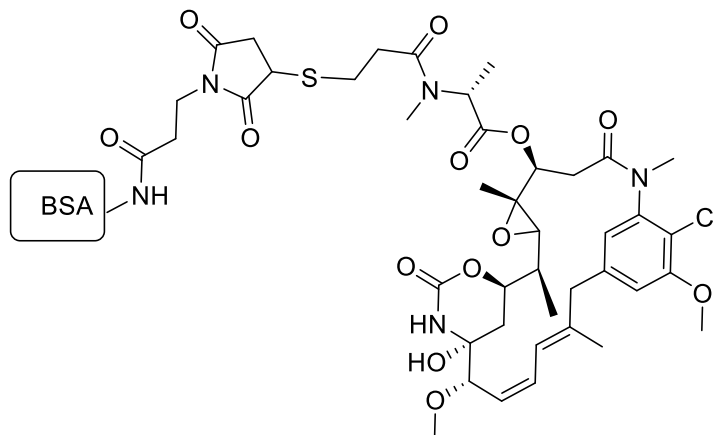


Certificate of Analysis

Description of the Material:

- (a) Chemical Name: BSA-DM1 (mertansine) Conjugate
- (b) Chemical Structure:



- (c) Molecular Weight: ~70 KDa
- (d) Appearance: white to off-white preservative-free lyophilized powder
- (e) Amount: each tube contains 1 mg of BSA-DM1
- (f) Reconstitution: dissolve in 420 μ L of deionized water to obtain 2.38 mg in 1xPBS buffer containing sugar-based stabilizer

Material Code and Batch Number:

- (a) Material Code: CM52110_1MG or CM52110_5MG
- (b) Lot Number: 1324-050.S8.082919

Purity, UV/Vis, and Loading:

- (a) HPLC analysis: $\geq 99\%$ of conjugates, free of any unreacted DM1
- (b) Drug over BSA ratio: ~ 4
- (c) Characteristic additive UV/Vis spectra of DM1 and BSA

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 solution may be able to stay at $2-8^{\circ}\text{C}$ for few weeks or -20°C for few months.

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

Data Appendix: Size exclusion HPLC and UV/Vis Spectrum.

Figure 1. Overlay size exclusion HPLC spectrum of BSA (before labeling, red trace) and BSA-DM1 in PBS buffer (after labeling, blue trace). Delt Rt: 0.261 min

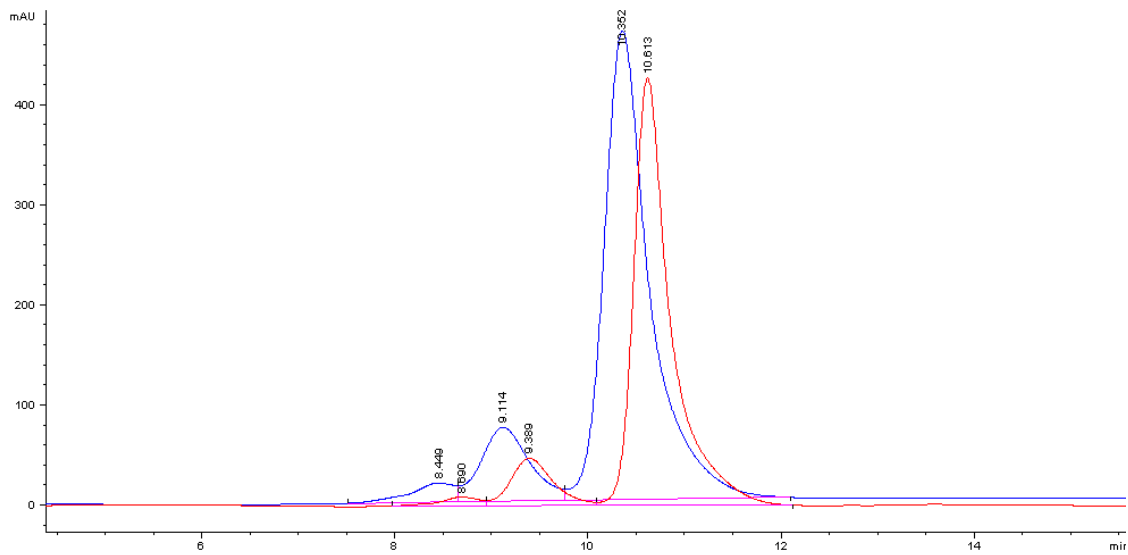


Figure 2. Overlay UV/Vis spectrum of BSA (before labeling, red trace) and BSA-DM1 (after labeling, blue trace). UV absorbance ratio (R) of BSA at 252 nm and 280 nm: 0.53. R of BSA-DM1: 1.89.

