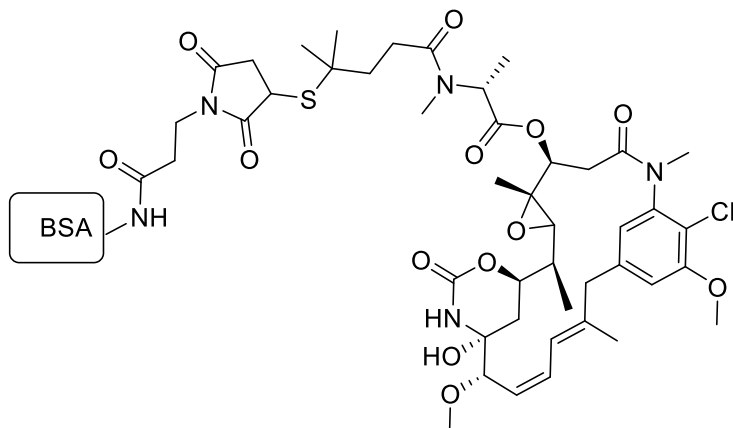


Certificate of Analysis

Description of the Material:

- (a) Chemical Name: BSA-DM4 (ravtansine) 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-DM4.
- (f) Reconstitution: dissolve in 358 μ L of deionized water to obtain 2.79 mg in 1xPBS buffer containing sugar-based stabilizer.

Material Code and Batch Number:

- (a) Material Code: CM52112_1MG or CM52112_5MG
- (b) Lot Number: 1323-050.S8.082919

Purity, UV/Vis, and Loading:

- (a) HPLC analysis: $\geq 99\%$ of conjugates, free of any unreacted DM4
- (b) Drug over BSA ratio: 2~4
- (c) Characteristic additive UV/Vis spectra of DM4 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 a few weeks or -20°C for a few months.

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

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

Figure 1. Overlay size exclusion HPLC spectrum of BSA (before labeling, red trace) and BSA-DM4 in PBS buffer (after labeling, blue trace). Delt Rt: 0.299 min

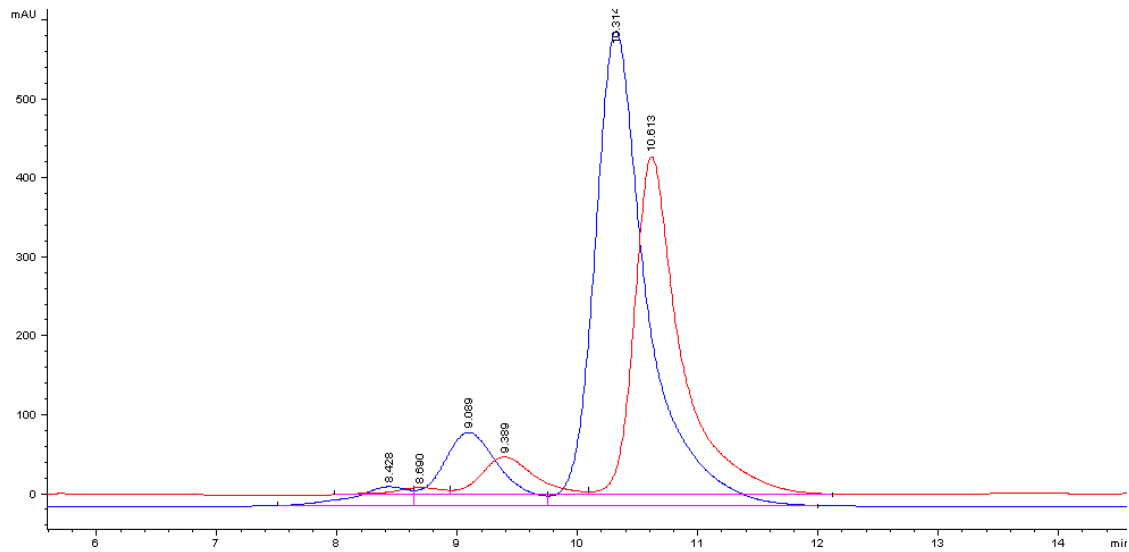


Figure 2. Overlay UV/Vis spectrum of BSA (before labeling, red trace) and BSA-DM4 (after labeling, blue trace). UV absorbance ratio (R) of BSA at 252 nm and 280 nm: 0.53. R of BSA-DM4: 1.2.

