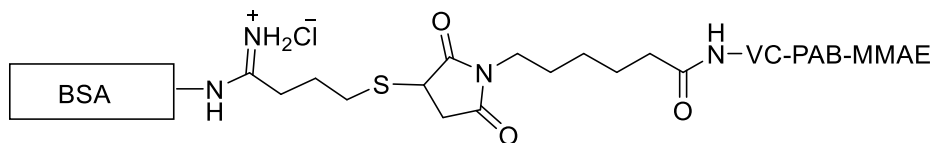


Certificate of Analysis

Description of the Material:

- (a) Chemical Name: BSA-MMAE Conjugate with VC-PAB linker
- (b) Chemical Structure:



- (c) Molecular Weight: ~71 KDa
- (d) Appearance: colorless to white lyophilized powder in a 2.0 mL centrifuge tube.
- (e) Amount: each tube contains 1 mg of BSA-MMAE.
- (f) Reconstitution: dissolve in 344.8 μ L of deionized water to achieve 2.9 mg/mL in 1xPBS buffer containing sugar-based stabilizer (no preservative).

SKU Code and Batch Number:

- (a) SKU Code: CM52113-1MG or CM52113-5MG
- (b) Lot Number: S296.S12.072420

Purity Specifications and Results:

- (a) HPLC analysis: \geq 99% of conjugates, free of any unreacted MMAE
- (b) Drug over BSA ratio: ~ 3.8
- (c) Characteristic additive UV/Vis spectra of MMAE and BSA

Intended Use: For research and development use only.

Hazard Information: Hazard information for this compound is unknown and it should be handled with proper care.

Shelf life, Storage/Stability as Supplied: The shelf life of this compound has not been tested, but the compound is fairly stable at RT. The compound should be stored at -20°C. After reconstitution, use immediately.

Date of analysis: July 24, 2020

Retest Date: July 24, 2023

Figure 1. Overlay size exclusion HPLC spectrum of BSA (before labeling, red trace) and BSA-MMAE in PBS buffer (after labeling, blue trace).

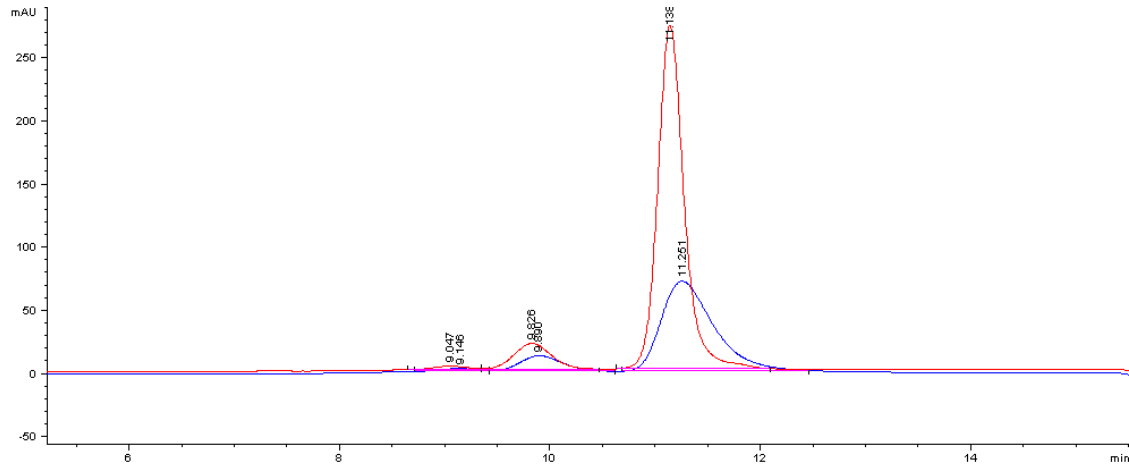
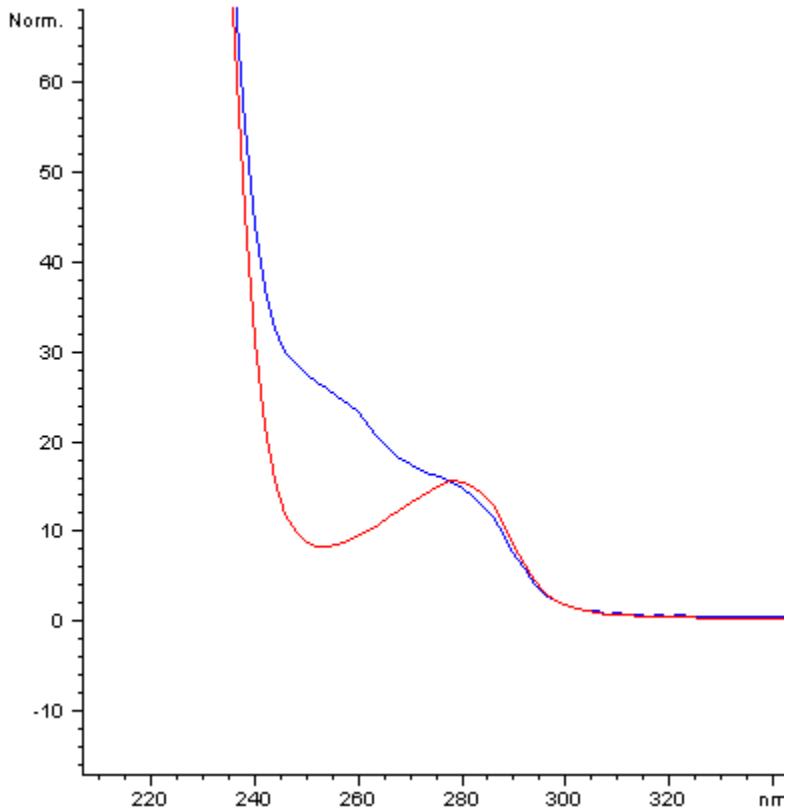


Figure 2. Overlay UV/Vis spectrum of BSA (before labeling, red trace) and BSA-MMAE (after labeling, blue trace). UV absorbance ratio (R) of BSA at 248 nm and 280 nm: 0.722. R of BSA-MMAE: 1.842.





CellMosaic, Inc. www.cellmosaic.com
10 A Roessler Road, Woburn, MA 01801, USA.

SEC HPLC Analysis of BSA-MMAE in PBS Buffer

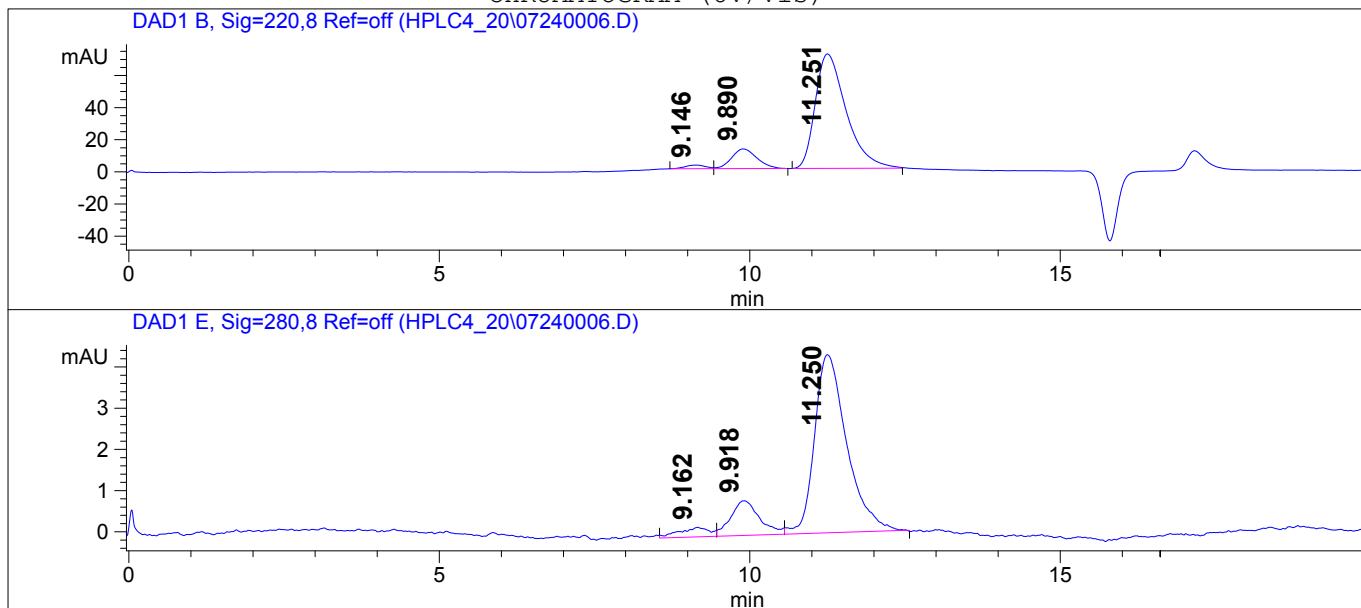
HPLC ANALYSIS DATA

Data Acquired By: QC
Sample Location: Vial 24
Sample Name: s296.s12.072420

Actual injection Volume: 10.0 uL
Sequence Name:
Method: C:\HPCHEM\1\METHODS\TSK-L5.M
Pressure: 50.3 bar
Flow: 0.750 mL/min
Temp (C): 25.0 C

-- SAMPLE INFORMATION --
s296.s12.072420
x5 -->

CHROMATOGRAM (UV/Vis)



Signal Description Wavelength (nm), Bw	Retention Time [Min.]	Area [mAU.s]	Area %
DAD1 B, Sig=220,8 Ref=off	9.146	53.2	1.8
	9.890	348.2	12.1
	11.251	2477.1	86.1
DAD1 E, Sig=280,8 Ref=off	9.162	7.9	4.1
	9.918	27.3	14.3
	11.250	156.6	81.6

*****END OF REPORT*****