

# ADC vs. Free Drug Separation and Analysis



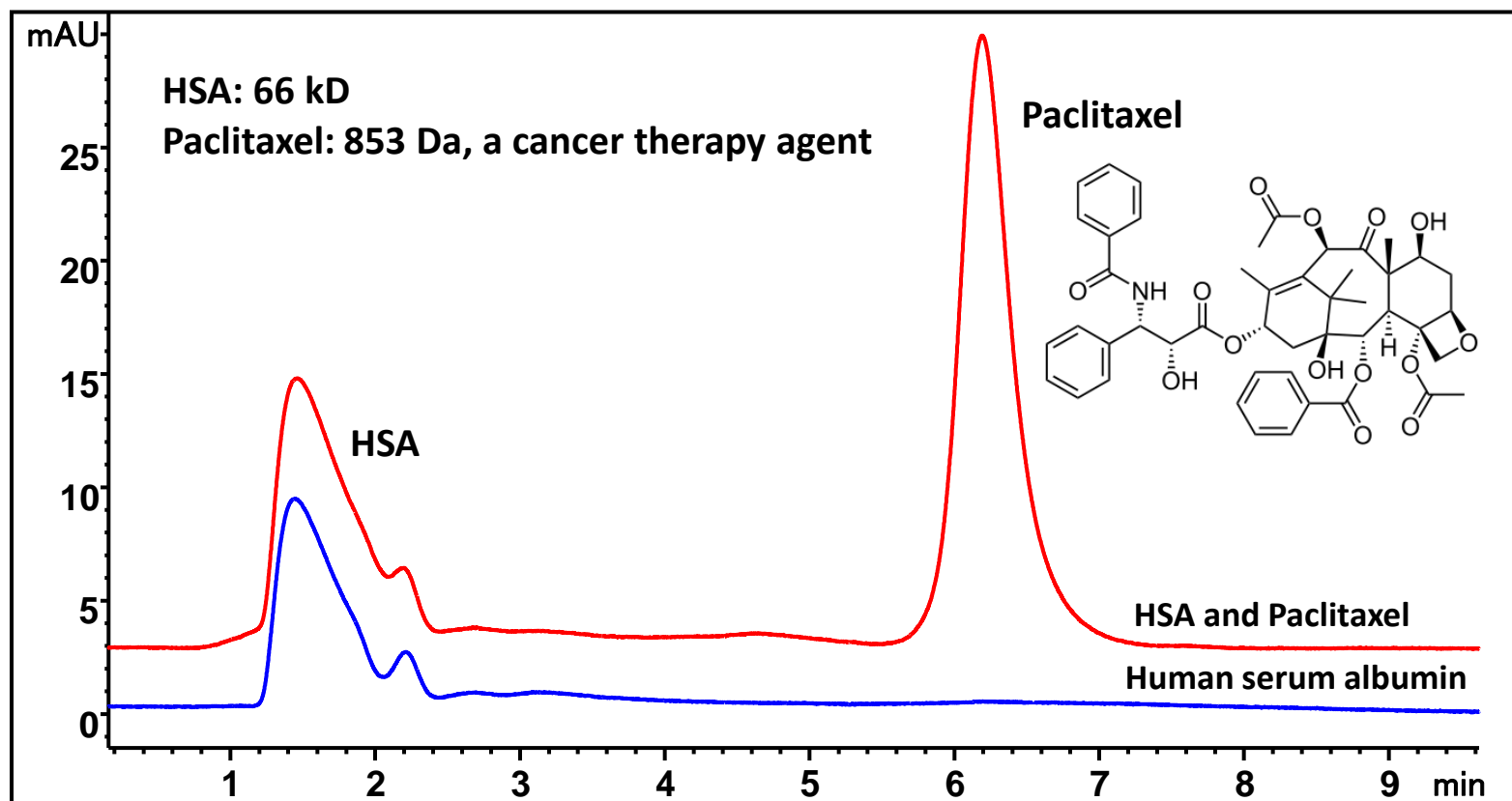
# Human serum albumin and Paclitaxel analysis on Zenix-80 (2105)

Column: Zenix® SEC-80 ( 3  $\mu\text{m}$ , 80  $\text{\AA}$ , 2.1 x 50 mm)

Mobile phase: 50 mM  $\text{NH}_4\text{Ac}$  : ACN = 70 : 30 ( v/v )

Flow rate: **0.1 mL/min**; Detection: UV 228 nm; Column temperature: 25  $^\circ\text{C}$

Injection volume: 0.1  $\mu\text{L}$ ; Sample: Human Albumin, 2.0 mg/mL Human Albumin/paclitaxel in water



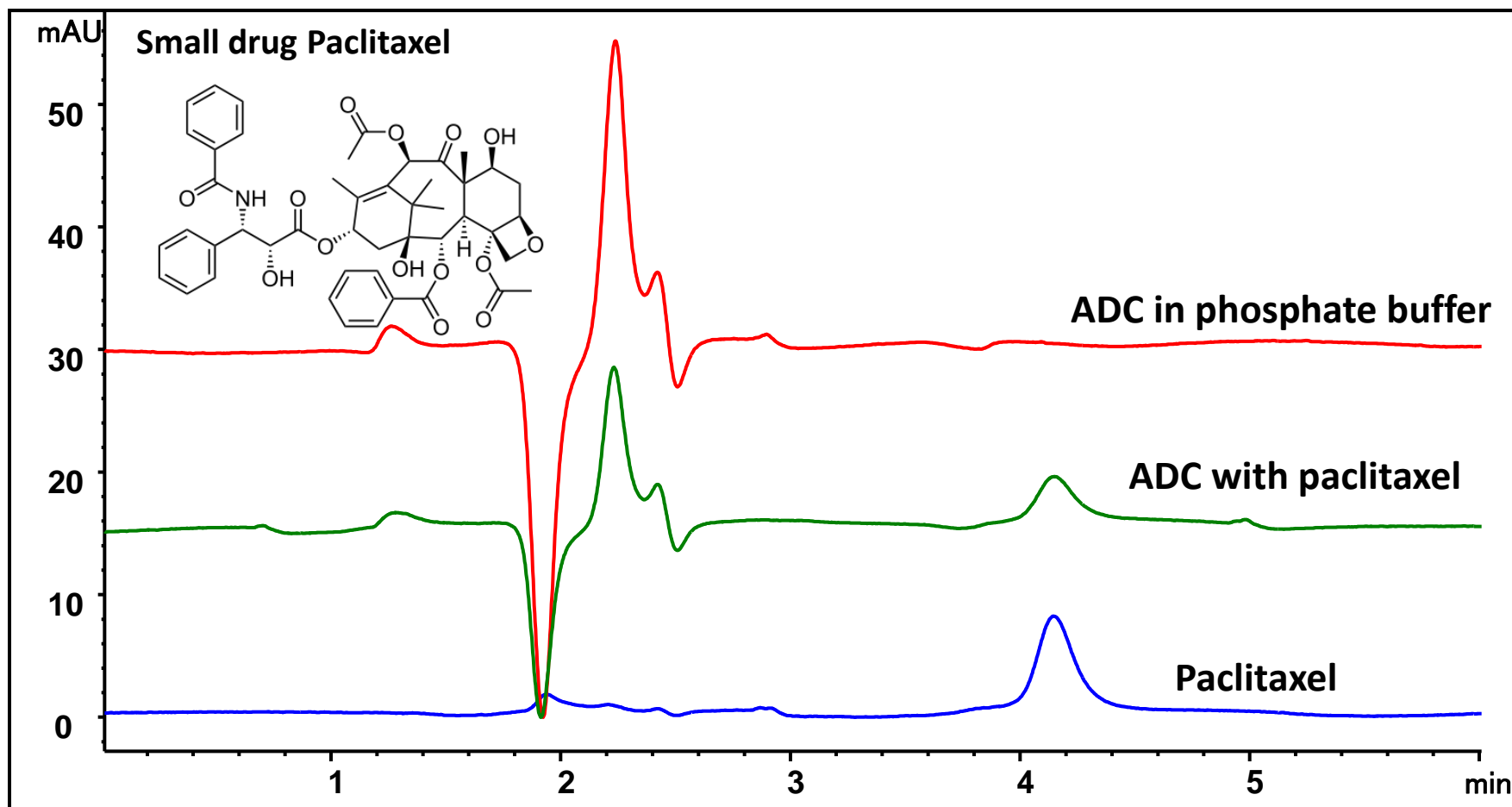
# ADC and free drug Paclitaxel Analysis on Zenix®-C SEC-80 ( 4605 )

Column: Zenix®-C SEC-80 (3  $\mu\text{m}$ , 80  $\text{\AA}$ , 4.6 x 50 mm)

Mobile phase: 50 mM  $\text{NH}_4\text{Ac}$  : ACN = 80 : 20 ( v/v ), Flow rate: 0.3 mL/min,

Detector: UV 228 nm, Column temperature: 25  $^\circ\text{C}$ ,

Injection volume: 2  $\mu\text{L}$ , Samples: See below, Pressure: 21 bar



ADC and free drug are separated with volatile buffer and short SEC columnn.

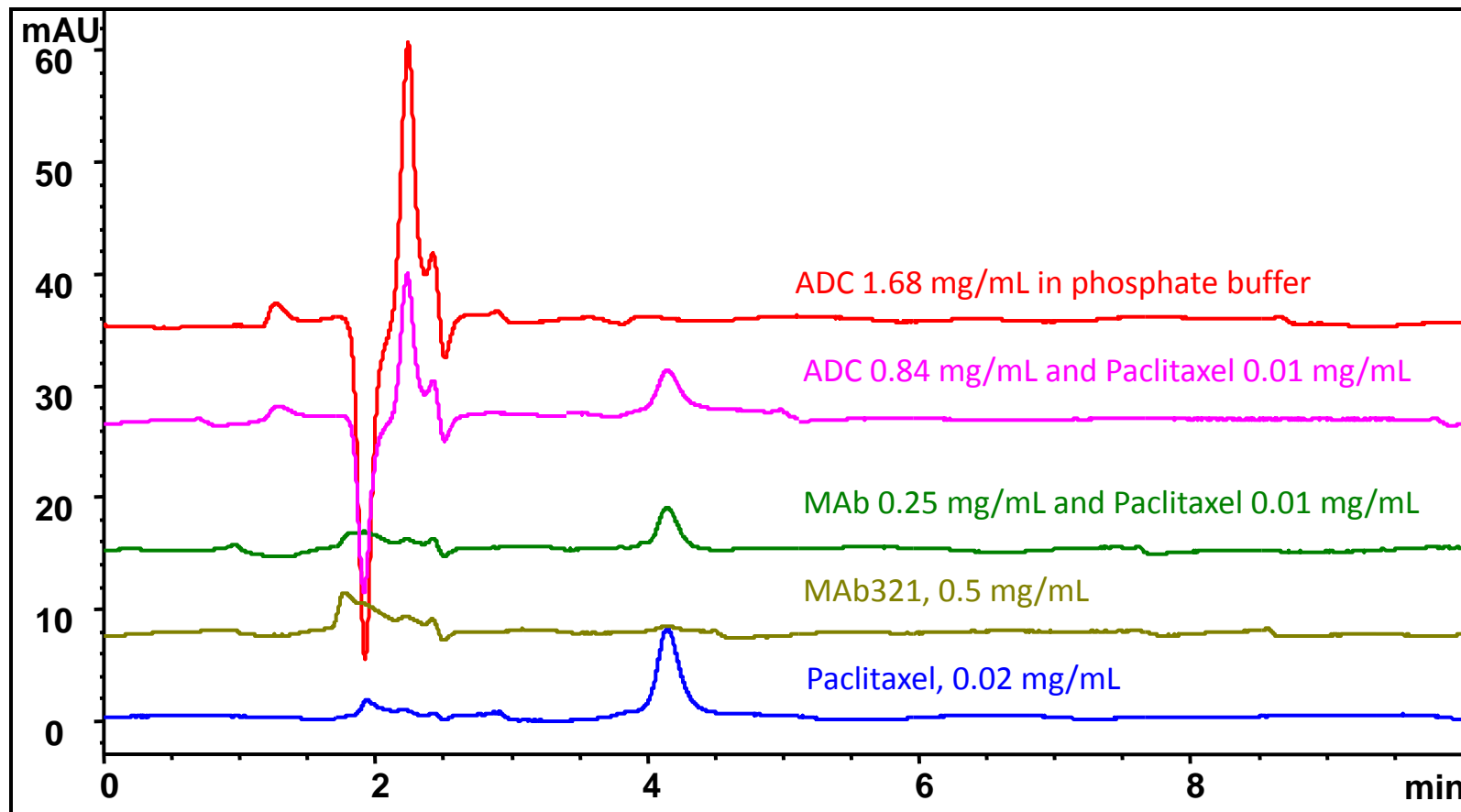
# mAb, ADC and Paclitaxel Analysis on Zenix<sup>®</sup>-C SEC-80 ( 4605 )

Column: Zenix<sup>®</sup>-C SEC-80 (3  $\mu\text{m}$ , 80  $\text{\AA}$ , 4.6 x 50 mm)

Mobile phase: 50 mM  $\text{NH}_4\text{Ac}$  : ACN = 80 : 20 ( v/v ), Flow rate: 0.3 mL/min,

Detector: UV 228 nm, Column temperature: 25  $^\circ\text{C}$ ,

Injection volume: 2  $\mu\text{L}$ , Samples: See below, Pressure: 21 bar



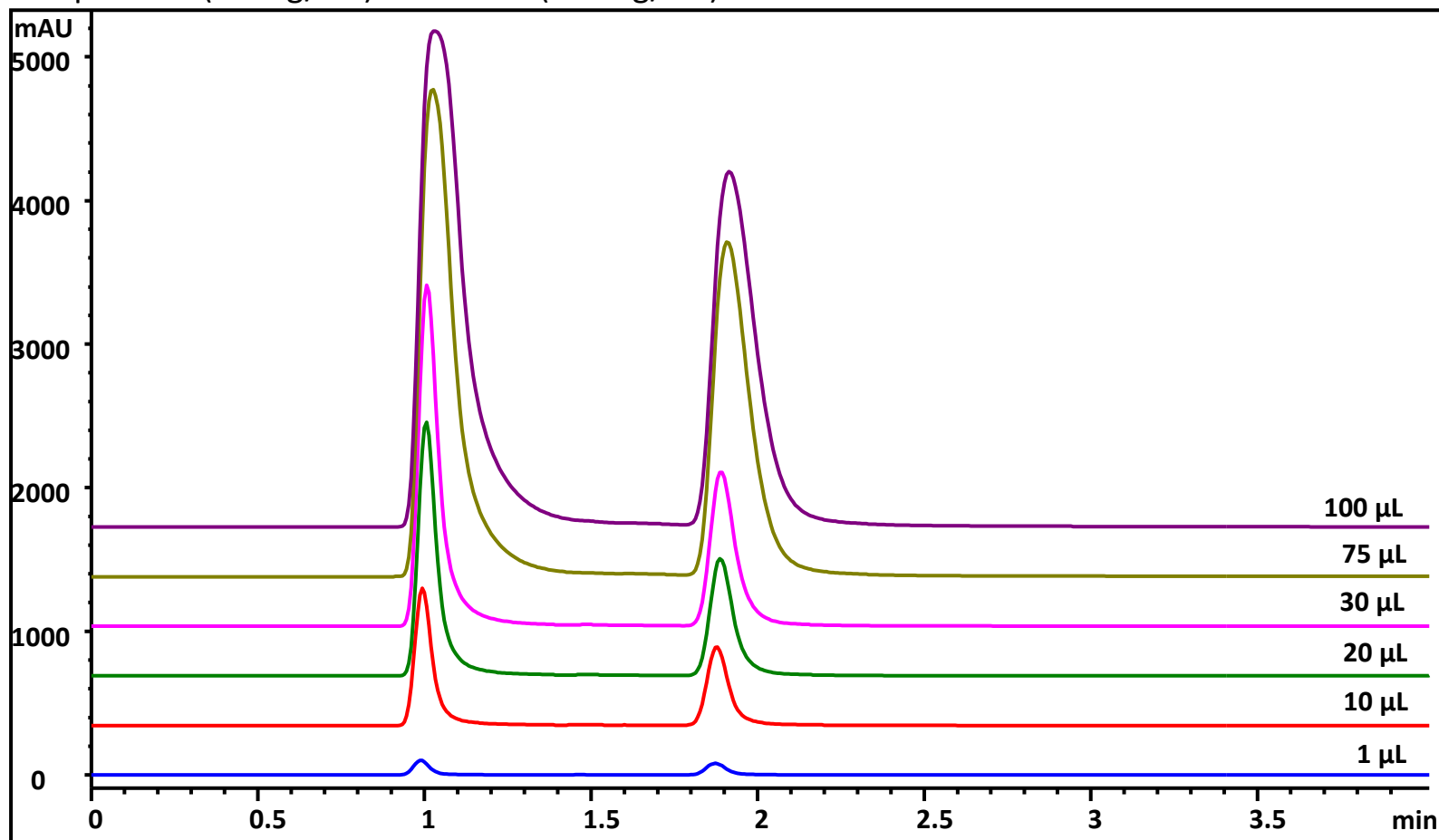
# Overlay of BSA and Uracil on Zenix SEC-80 7.8x50mm

Column: Zenix® SEC-80, 7.8 x 50 mm

Flow rate: 1.0 mL/min, , Detection: UV 280nm

Mobile phase: 150 mM sodium phosphate buffer pH 7.0

Sample: BSA (10 mg/mL) and Uracil (0.5 mg/mL)



Larger diameter and short 50 mm column allows higher loading for large and small biomolecule separation or desalting.



## Product information

Column	Part number
Zenix <sup>®</sup> SEC-80 ( 3 $\mu\text{m}$ , 80 $\text{\AA}$ , 2.1 x 50 mm)	213080-2105
Zenix <sup>®</sup> SEC-80 (3 $\mu\text{m}$ , 80 $\text{\AA}$ , 7.8 x 50 mm)	213080-7805
Zenix <sup>®</sup> -C SEC-80 (3 $\mu\text{m}$ , 80 $\text{\AA}$ , 4.6 x 50 mm)	233080-4605