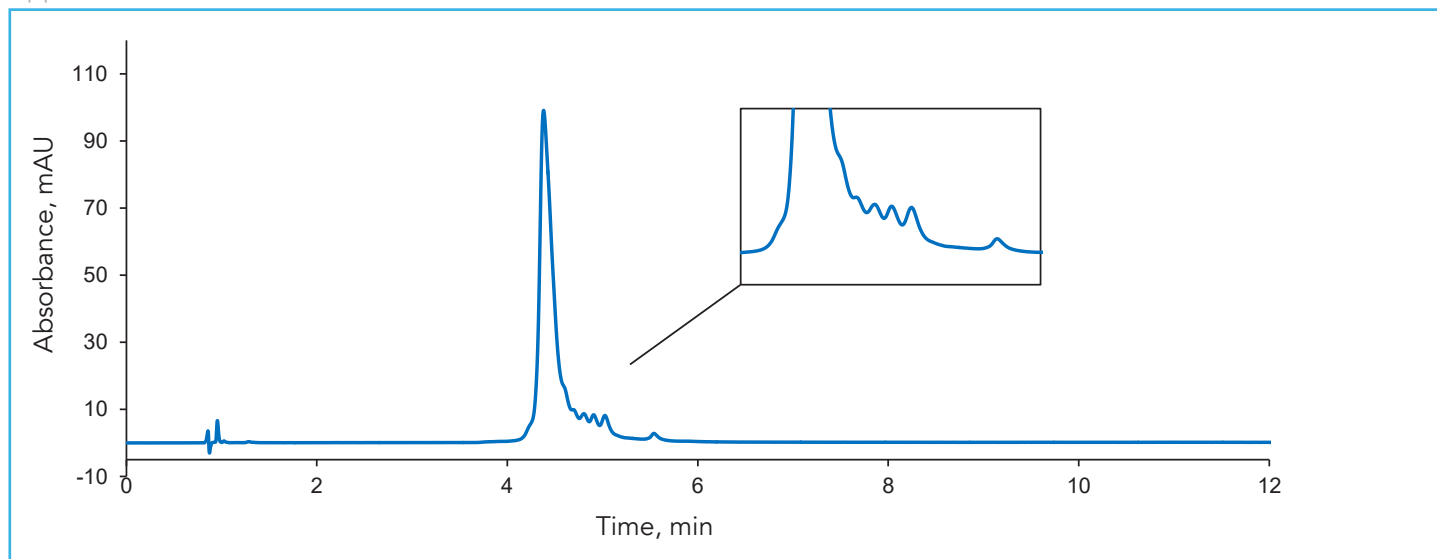




HALO 1000 Å C4 Protein Column for High Resolution Separation of a Monoclonal Antibody

Application Note 149-PR



Trastuzumab (MW ~148 kDa) is a monoclonal antibody used to treat breast cancer. Enhanced resolution of trastuzumab and its variants is demonstrated in the chromatogram above. The pores of the HALO 1000 Å C4 Protein particles accommodate larger biomolecules enabling superior separations at high temperatures.

TEST CONDITIONS:

Column: HALO 1000 Å C4, 2.7 μm ,
2.1 x 100 mm

Part Number: 92712-614

Mobile Phase:

A: Water, 0.1% TFA

B: 80/20 ACN/water, 0.085% TFA

Gradient:	Time (min)	% B
	0.0	40.0
	12.0	47.5

Flow Rate: 0.4 mL/min

Pressure: 210 bar

Temperature: 80 °C

Detection: UV 280 nm, PDA

Injection Volume: 2.0 μL

Sample Solvent: 70/30 water/ACN

Response Time: 0.05 sec

Data Rate: 12.5 Hz

Flow Cell: 1.0 μL

LC System: Shimadzu Nexera X2

Trastuzumab Structure:

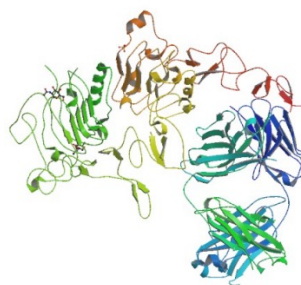


Image from the RCSB PDB (www.rcsb.org) of PDB ID 1N8Z
Cho, H.-S., Mason, K., Ramyar, K.X., Stanley, A.M., Gabelli, S.B., Denney Jr., D.W., Leahy, D.J.

