

NEW!

Hydrophobic Interaction Chromatography Column BioPro HIC BF

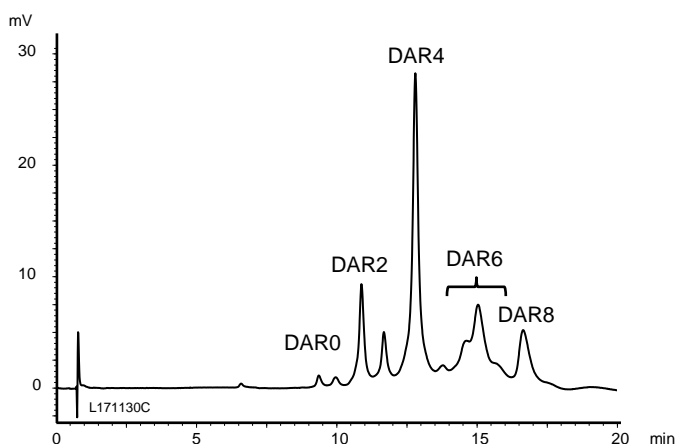
Features

- Effective for separation of proteins and antibodies such as Antibody-Drug Conjugates (ADCs)
- High resolution comparable to sub-3 μm with low operating pressure
- Fast analysis at high flow rates
- Usable for laboratory-scale purification

Specification

Matrix	: Hydrophilic non-porous polymer
Particle size	: 4 μm
Functional group	: Butyl group
Temperature range	: 10-60°C
pH range	: 2-12

Effective for Drug-to-Antibody Ratio (DAR) analysis of ADCs

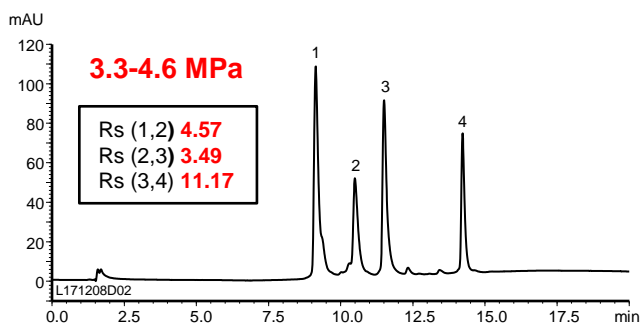


Column	: BioPro HIC BF 4 μm , 100 X 4.6 mm I.D.
Eluent	: A) 50 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0) containing 1.5 M $(\text{NH}_4)_2\text{SO}_4$ /2-propanol (95/5) B) 50 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0)/2-propanol (80/20) 0%B (0-1 min), 0-100%B (1-15 min), 100%B (15-20 min)
Temperature	: 25°C
Flow rate	: 1.0 mL/min
Injection volume	: 5 μL
Detection	: UV at 280 nm
Sample	: Cysteine-conjugated ADC mimic (5 mg/mL)

BioPro HIC BF column provides superior separation for ADCs and is effective for DAR determination.

High resolution comparable to sub-3 μm with low operating pressure

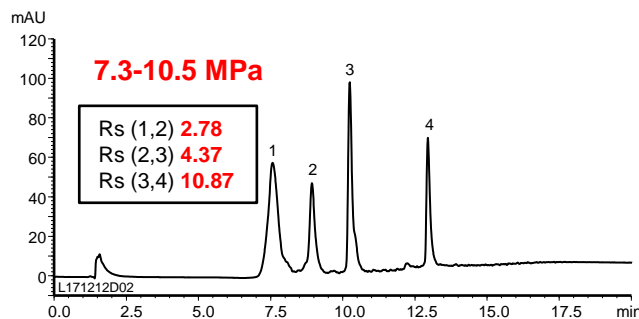
BioPro HIC BF (4 μm)



3.3-4.6 MPa

Rs (1,2) **4.57**
Rs (2,3) **3.49**
Rs (3,4) **11.17**

Competitor HIC column (2.5 μm)



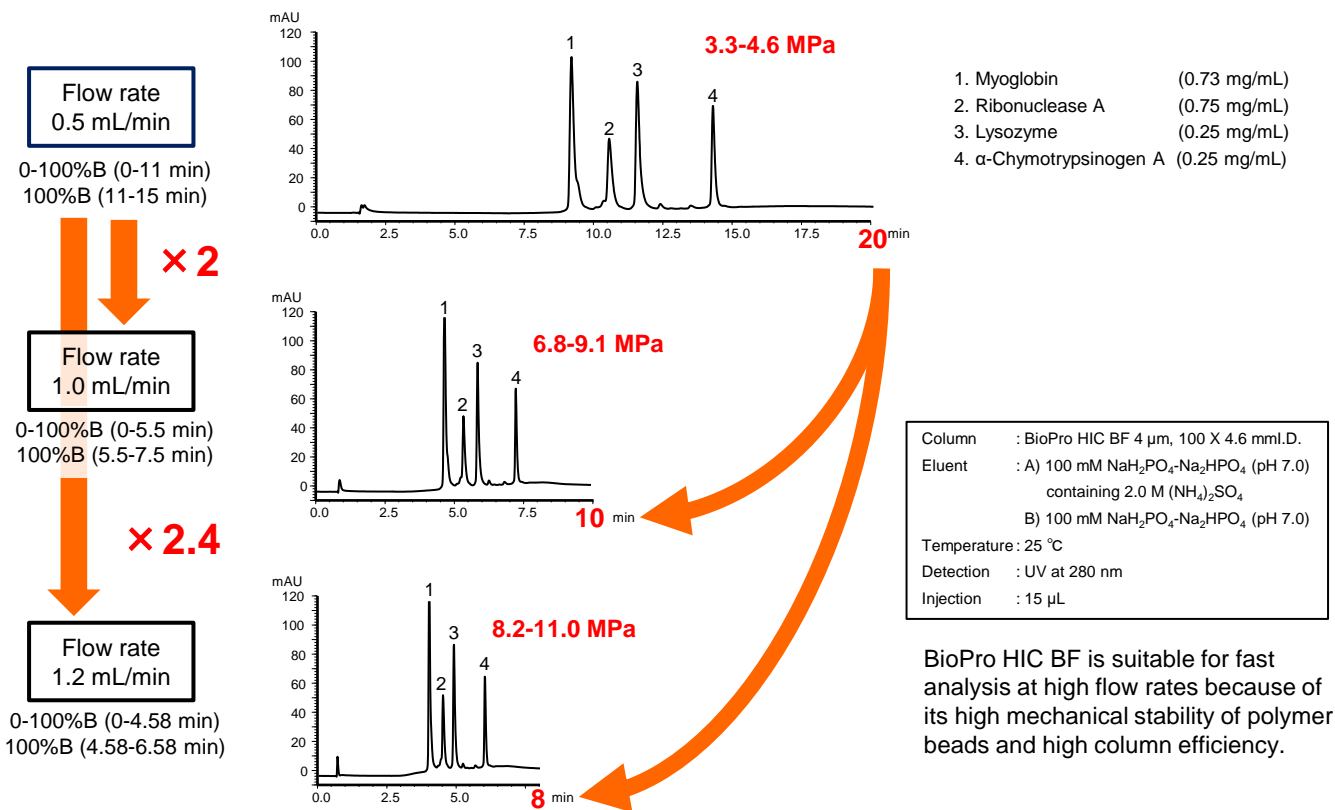
7.3-10.5 MPa

Rs (1,2) **2.78**
Rs (2,3) **4.37**
Rs (3,4) **10.87**

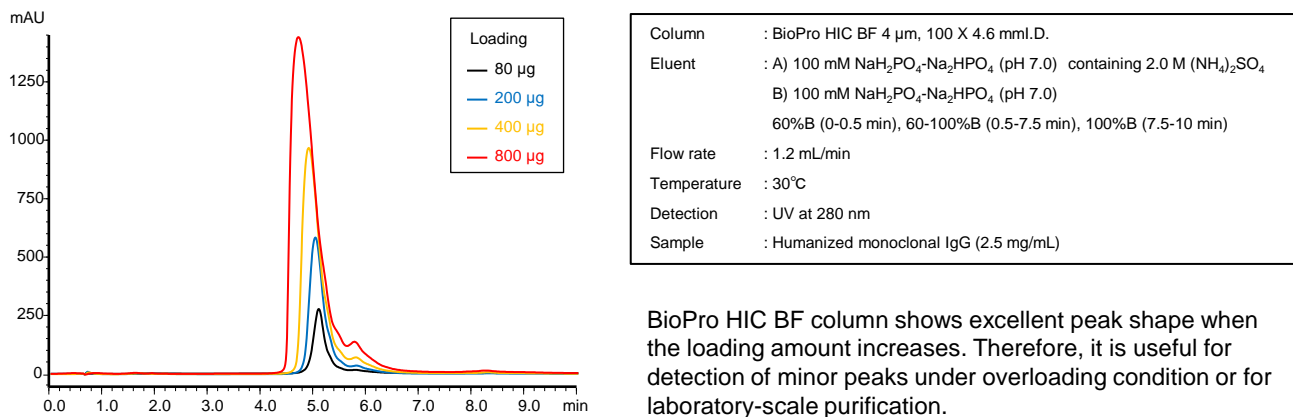
Column	: 100 X 4.6 mm I.D.
Eluent	: A) 100 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0) containing 2.0 M $(\text{NH}_4)_2\text{SO}_4$ B) 100 mM NaH_2PO_4 - Na_2HPO_4 (pH 7.0) 0-100%B (0-11 min), 100%B (11-15 min)
Flow rate	: 0.5 mL/min
Temperature	: 25°C
Detection	: UV at 280 nm
Injection	: 15 μL
Sample	: 1. Myoglobin (0.73 mg/mL), 2. Ribonuclease A (0.75 mg/mL), 3. Lysozyme (0.25 mg/mL), 4. α -Chymotrypsinogen A (0.25 mg/mL)

Separation of proteins are compared between BioPro HIC BF with particle size 4 μm and a competitor's HIC column with 2.5 μm . BioPro HIC BF with optimized media design and packing technology has superior resolution comparable to competitors' columns with sub-3 μm .

Fast analysis at high flow rates



Excellent peak shape under high loading



[Ordering information]

Particle size (μm)	Column size inner diameter X length (mm)	Product number
4	4.6 X 100	BHB00S04-1046WT

Please contact us about the product with other sizes. Preparative columns are also available.

Worldwide Availability

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www.ymcamerica.com

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