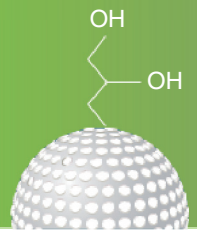
Biozen dSEC-2

Size Exclusion Chromatography Columns

Biozen™ by Phenomenex



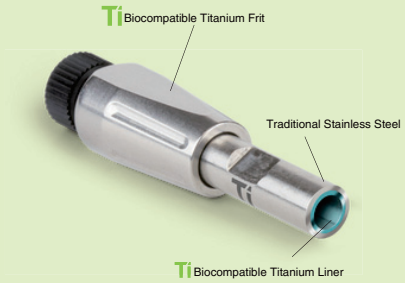
- 매우 견고한 SEC 입자
- 뛰어난 안정성 및 뛰어난 수명
- 재현 가능한 분리
- BioTi™ 하드웨어

- 항체 응집체(Aggregates) 분석
- 항체 단편(Fragments) 분석
- 다양한 바이오 의약품 분석
- 전 과정 품질 관리

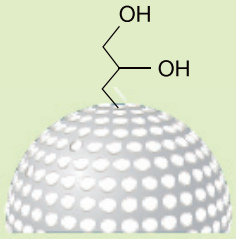
- IgG2 동종형 항체
- IgG4 동종형 항체
- 이중특이성 항체
- Fc-융합 단백질

Biozen™ dSEC-2 핵심 특징

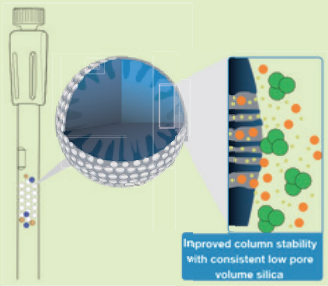
생체적합성 BioTi Titanium 하드웨어



Diol 표면화학

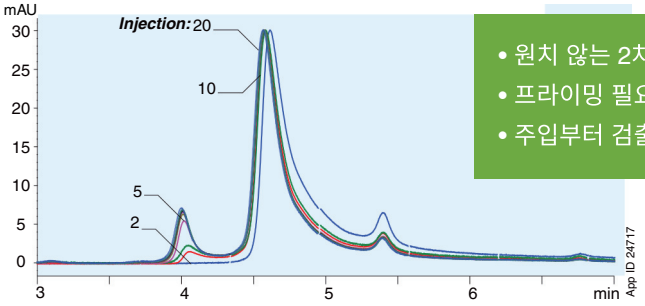


일관된 낮은 기공 부피



Overlaid Successive Injections – Protein Priming Comparison

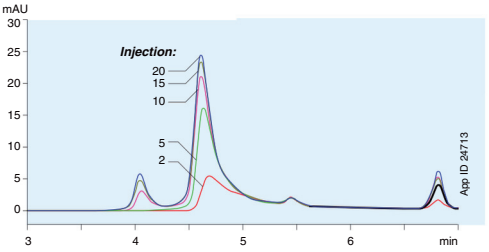
Biozen™ Titanium BioTi Hardware



- 원치 않는 2차 상호작용 감소
- 프라이밍 필요성 최소화
- 주입부터 검출까지 회수 문제 감소

Traditional Stainless Steel

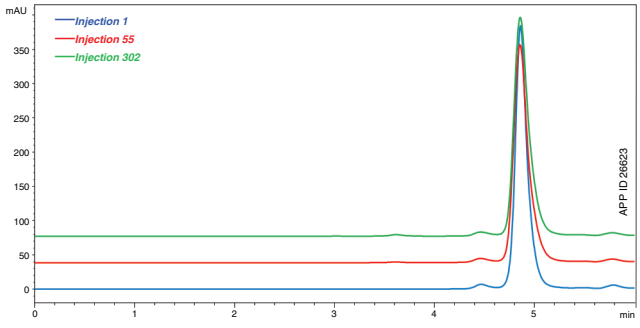
Multiple injections needed for priming



컬럼 수명 및 성능 안정성

최적화된 SEC 로딩 기술로 충진 밀도와 실리카 분포 개선 → 컬럼 수명·안정성 강화

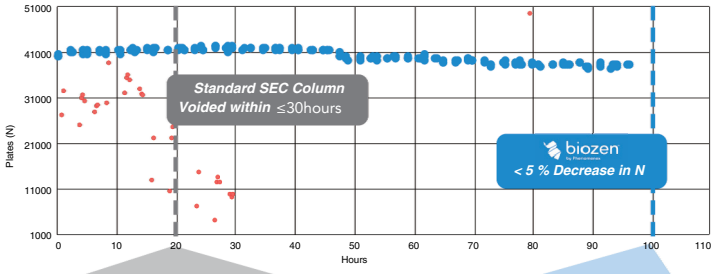
300회 주입 후에도 성능 변화 없음 ▼



Efficiency, Uridine (Biozen dSEC-2, 1.8 µm, 200 Å)

Efficiency, Uridine (SEC Column 1.8 µm)

100시간 극한 조건에서도 성능 변화 없음 ▼



Premature Failure with Standard Silica

High pore volume silica cannot withstand rigorous running conditions, leading to **erratic results** and eventually formation of column "void", leading to **premature failure**.

Biozen SEC Consistent Results

>50% increasein column stability versus standard SEC column media

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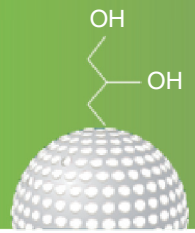
Biozen dSEC-2

Size Exclusion Chromatography Columns

Biozen™ by Phenomenex



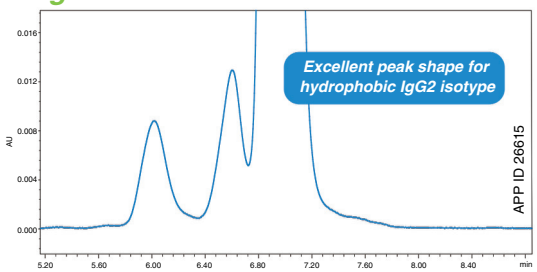
A Step by step guide to optimizing your SEC methodoloty with Biozen dSEC-2

Biozen dSEC-2
Method Development Process Flowchart

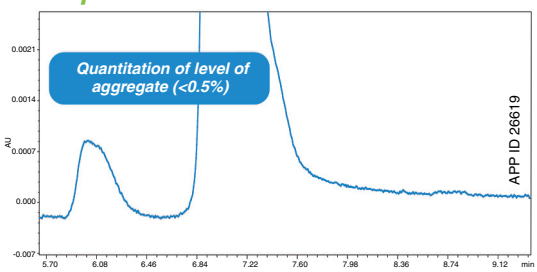
SEC 분석법의 새로운 표준 Biozen dSEC-2

dSEC-2는 IgG2 또는 IgG4 Isotype, 이중특이성, 또는 Fc Fusion 등 다양한 항체 및 관련 재조합 단백질에 대해 탁월한 분리 및 시료 회수율을 제공합니다.

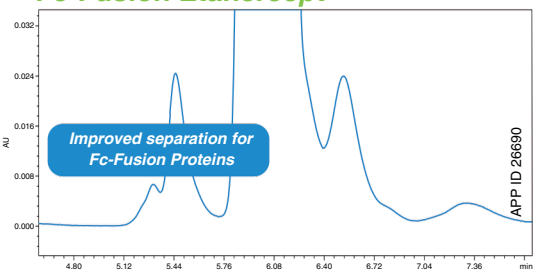
IgG2 Panitumumab



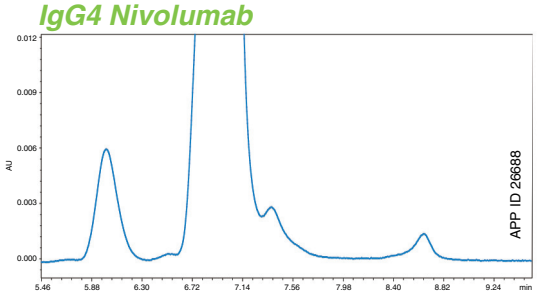
Bispecific Emicizumab



Fc-Fusion Etanercept



IgG4 Nivolumab



Conditions for all applications:
Column: Biozen 1.8 µm dSEC-2, 200 Å
Dimension: 300 x 4.6 mm
Part No.: 00H-4787-E0
Mobile Phase: 200 Potassium Phosphate + 250 mM KCl, pH 6.2
Flow Rate: 0.35 mL/min
Injection Volume: 10 µL
Detector: UV @ 280 nm
Temperature: 25 ˚C
Sample: Various,10 mg/mL

Biozen dSEC-2 컬럼 세부 특성

Phases	*Description*	*Pore Size (Å)*	*Surface Area (m^2/g)*	*Carbon Load (%)*	*pH stability*	*Shipping Solvent*	*Max Pressure (psi/bar)*	*Temp (˚C)*	*Mode of Analysis*
Biozen 1.8 µm dSEC-2	Inert, high-strength porous particle for the separation and quantitation of monoclonal antibody aggregate and fragments	200	–	–	2.5-7.5	0.1 M Sodium Phosphate, pH 6.8 w/ 0.025 % NaN_3	8000/570	50	SEC/GFC
Biozen 3 µm dSEC-2	Inert, high-strength porous particle for the separation and quantitation of monoclonal antibody aggregate and fragments	200	–	–	2.5-7.5	0.1 M Sodium Phosphate, pH 6.8 w/ 0.025 % NaN_3	4000/285	50	SEC/GFC

주문정보

Biozen dSEC-2 Products - Powered by Biocompatible Hardware

Biozen Columns (mm)							*Guard Columns*		
	50 x 2.1	*150 x 2.1*	*150 x 4.6*	*300 x 4.6*	*150 x 7.8*	*300 x 7.8*	*30 x 2.1*	*30 x 4.6*	*40 x 7.8*
Biozen 3 µm dSEC-2	—	—	00F-4788-E0	00H-4788-E0	00F-4788-K0	00H-4788-K0	—	03A-4788-E0	03Q-4788-K0
Biozen 1.8 µm dSEC-2	00B-4787-AN	00F-4787-AN	00F-4787-E0	00H-4787-E0	—	—	—	03A-4788-E0	—

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