Prochinert

The Highest Deactivation Universal Reversed-Phase Columns

Prominert

The Best Separation Atless Than 20 MPa



o-Si







Tandem TMS end-capping

The ultimate end-capping method at the present

Opyvot



*





Denser end-capping than TMS

Tandem TMS deactivation provides alkaline durability comparable to hybrid silica,

Dramatically improved





ChromaNik Technologies Brief history of successive HPLC columns and an overview of the new column Prominert 2005. Established ChromaNik 2006: Started research and development of a unique hybrid column (Post-X2) that fused the knowledge of silica and polymers.

2007. Established silanol activity control technology (SAC) and developed Sunrise C18-SAC with the most unique selectivity.

2008. Released the highly stable and low-adsorption fully-porous column Sunniest series, and established advanced deactivation technology (Sunniest End-capping).

2011. A column that applies a high degree of deactivation treatment to superficially porous (core-shell type) particles, SunShell was lunched. Since then, we developed a series of new particles and new stationary phases (PFP&C18, Biphenyl, etc.). 2015. Released SunArmor, a fully porous column with high alkali durability.

In 2023, we released the column "Prominert" developed with the technology we have built so far. The concept is "highest resolution in HPLC". It delivers the best separation performance in conventional HPLC, not UHPLC, and is durable.

Basic column performance

Prominert C18: Lower pressure, larger retention, and higher efficiency than hybrid type



Prominert Biphenyl: Separation behavior different from C18 in methanol mobile phase

*"Hydrogen bonding" is originally a separation characteristic derived from silanol groups, but in this column it takes a larger value due to π electron.

Prominert C18: High pH durability comparison with hybrid C18 column



Prominert Biphenyl: Effect of retention and selectivity by unique interaction



Prominert

Works with any HPLC system

[Specification]

Porous silica

Carbon Loading C18:7% Biphenyl:4% Particle size: 3.5 μm End-capping: Tandem TMS Pore diameter: 9 nm Surface area: 140 m²/g

high

Usable over a wide pH rang



Stable and Robust // First Choice column

- Best performance even using a conventional HPLC
- > 20 MPa or less in

Inw

methanol/water mobile phase

Column	Length (mm)	Part number / Inner diameter			Maximum pressure
		2.1 mm	3 mm	4.6 mm	(Available pH range)
Prominert C18	50	PB9941	PB9341	PB9441	
	100	PB9961	PB9361	PB9461	60 MPa
	150	PB9971	PB9371	PB9471	(1 - 12)
	250	PB9981	PB9381	PB9481	(1 12)





Unique interaction allows separation different from C18.

Column	Length (mm)	Part number / Inner diameter			Maximum pressure
		2.1 mm	3 mm	4.6 mm	(Available pH range)
Prominert BIphenyl	50	P89941	P89341	P89441	
	100	P89961	P89361	P89461	60 MPa
	150	P8997 I	P89371	P89471	(1 - 10)
	250	PB9981	P89381	P89481	

*Tips for selecting a Biphenyl mobile phase: Methanol is the basic organic solvent, but selectivity can be changed by adding 2-propanol or acetonitrile.

