

proFIRE® Column

is intended to be used as the proFIRE® purification column for protein-DNA conjugates



Product Description

Order Number **PF-CC-1**

Column Specifications		Media Specifications	
Column Volume	1 mL	Matrix	Hydrophilic porous polymer beads
Column material	Polypropylene	Particle size	30 µm
Column size length x I.D.	26 x 7.0 mm	Functional group	-R-N+(CH₃)₃
Recommended flow rate	1 mL/min	pH range	2 – 12
Maximum flow rate	4 mL/min	Temp. range	4 – 60 °C
Max. pressure	0.3 MPa	Shipping solvent	20 % EtOH aqueous solution

Storage and Lifetime

20 % ethanol - Store at 4 – 35 °C

- Flush the column with water, then with 20 % EtOH solution. Make sure to close the end tightly to avoid drying out.

Equilibration and Elution

- Protein-DNA conjugates are electrostatically bound to the matrix of the column with **proFIRE®** Buffer A as a first mobile phase, then eluted with a salt-concentration gradient method (**proFIRE®** Buffer B).
- Water-soluble organic solvent (maximum of 30 %) can be added in the mobile phase. Before adding such solvent, make sure that the salt will not precipitate.

Cleaning

- A change of retention time of free DNA or peak shape and/or pressure increase may be caused by precipitated impurities of the sample. In such case, flush the column with 5-10 column volumes of **proFIRE®** Buffer B. After cleaning, sufficiently equilibrate the column with **proFIRE®** Buffer A. To prevent exposure of the column to excessive pressure, adjust the flow-rate appropriately during column cleaning.
- If performance does not recover, first wash with sodium hydroxide (about 0.1 M to 0.5 M) and then flush with **proFIRE®** Buffer B, followed by **proFIRE®** Buffer A.

Useful Order Numbers

Product Name	Order number
10x pro FIRE® Buffer A	PF-BU-A-10
5x pro FIRE® Buffer B	PF-BU-B-5
pro FIRE® Amine coupling kit 1 for proteins (>5 kDa); sufficient for 5 conjugations	PF-NH2-1
pro FIRE® Thiol coupling kit 1 for proteins (>5 kDa); sufficient for 5 conjugations	PF-SH-1
pro FIRE® Antibody Oligo Conjugation Kit; sufficient for 3 conjugations	PF-AB-1

Contact

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Technical Support

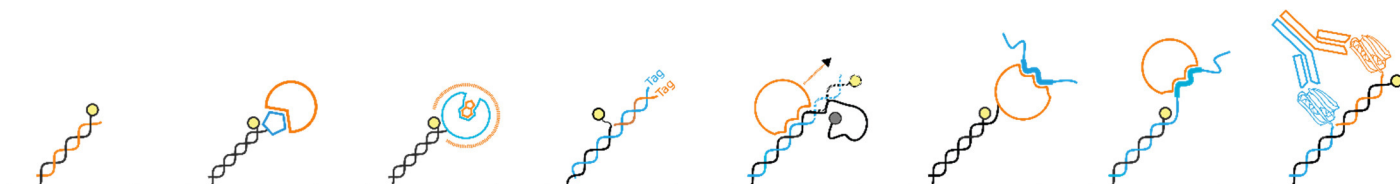
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