

## Chromatographic column

for the purification of protein-DNA conjugates

This anion exchange column is used for the purification of protein-DNA conjugates.

### Product description

Order Number **TB-CC-1-1**

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

### Storage and lifetime

20 % ethanol      Store at 4 – 35 °C

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

## Equilibration and elution

- Protein-DNA conjugates are electrostatically bound to the matrix of the column with Buffer A (150 mM NaCl) as a first mobile phase, then eluted with a salt-concentration gradient method (Buffer B, 1 M NaCl).
- 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 Buffer B. After cleaning, sufficiently equilibrate the column with 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 Buffer B, followed by Buffer A.

## Useful Order Numbers

Product Name	Order number
10x Buffer A pH 7.2 (50 mL of: 500 mM Na <sub>2</sub> HPO <sub>4</sub> /NaH <sub>2</sub> PO <sub>4</sub> , 1.5 M NaCl) Yields 0.5 L of: 50 mM Na <sub>2</sub> HPO <sub>4</sub> /NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl	BU-P-150-10
5x Buffer B pH 7.2 (50 mL of: 250 mM Na <sub>2</sub> HPO <sub>4</sub> /NaH <sub>2</sub> PO <sub>4</sub> , 5 M NaCl) Yields 0.25 L of: 50 mM Na <sub>2</sub> HPO <sub>4</sub> /NaH <sub>2</sub> PO <sub>4</sub> , 1 M NaCl	BU-P-1000-5
Amine coupling kit 1 for proteins (>5 kDa); cNL-B48 and NHS modifier, sufficient for 5 conjugation series	CK-NH2-1-B48
Amine coupling kit 1 for proteins (>5 kDa); cNL-B96 and NHS modifier, sufficient for 5 conjugation series	CK-NH2-1-B96

## My Notes

## Contact

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### Order Information

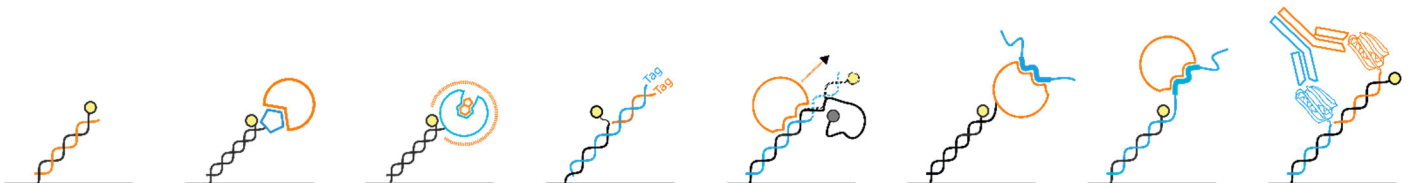
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