CREATIVE BIOMART®
Chromatography

GST GraviTrap

Product Information

Cat#No#	GST-093P

Product Overview

GST GraviTrap contains 10 disposable columns prepacked with 2 mL of Glutathione Sepharose 4B, sufficient for purification of up to 20 mg of fusion protein.

Description

GST GraviTrap contains 10 disposable columns prepacked with 2 mL of Glutathione Sepharose 4B, sufficient for purification of up to 20 mg of fusion protein. GST-tagged proteins are recovered under mild elution conditions (10 mM glutathione), which preserves functionality of the proteins.

Characteristic

Convenient, prepacked gravity-flow columns.
Allows direct purification of both clarified and unclarified cell lysates.
Yields up to 20 mg of pure proteins per column.

Applications

For fast and simple manual purification of GST-tagged proteins by gravity flow.

Particle Size

45 to 165 µm

Ligand

Glutathione and 10-carbon linker arm

Ligand density

7 to 15 µmol glutathione/ml medium

Dynamic binding capacity

Approx. 10 mg recombinant glutathione Stransferase (Mr 26 000)/mL medium (protein dependent)

Chemical stability

No significant loss of the capacity is detected when Glutathione Sepharose 4B is exposed to 0.1 M citrate (pH

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4.0), 0.1 M NaOH, 70% ethanol or 6 M guanidine hydrochloride2 for 2 hours at room temperature. No significant loss of binding capacity is observed after exposure to 1% SDS for 14 days.

pH working range

4 to 13

Storage

4 to 30°C, 20% Ethanol

Binding buffer

10 mM PBS, pH 7.4 (10 mM Na2HPO4 , 140 mM NaCl, 2.7 mM KCl, 1.8 mM KH2PO4 , pH 7.4).

Elution buffer

50 mM Tris-HCl, 10 to 20 mM reduced glutathione, pH 8.0.

Regeneration

The gel may be regenerated by washing the column with high salt buffer (PBS + 3 M NaCl. For longer storage, wash the column with 2 × 5 (2 × 10 mL) bed volumes of PBS and the 2 × 5 (2 × 10 mL) bed volumes of 20% ethanol Store at 4°C to 30°C.

Purification procedures

1. Cut of the bottom tip. Remove the top cap and pour of the excess liquid.
2. Wash the column with 10–20 mL of 10 mM PBS pH 7.4 to remove the preservative.
3. Apply the sample to the column. If needed, clarify the sample by centrifugation. The sample may be diluted in PBS if it is too concentrated. If large volumes is needed use LabMate reservoir.
4. Wash the column with 2 × 10 mL of PBS.
5. Elute the bound material with 10 mL of elution buffer (10 mM Glutathione in 50 mM Tris-HCl pH 8.0) and collect 1–2 mL fractions.

Pack size

10 × 2 mL

Column volume

13 mL

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Material
Polypropylene barrel, polyethylene frits

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