

His-tagged column package, 2-step protocol

Product Information

Cat#No# His-108P

Product Overview

The column package allows you to combine affinity with size exclusion chromatography to obtain highly pure his-tagged proteins.

Description

His-tags are widely used because they are small and rarely interfere with the function, activity, or structure of target proteins. All his-tagged protein purification protocols typically start with an affinity chromatography (IMAC = immobilized metal ion affinity chromatography) step. It enables the isolation of the target his-tagged protein from initial sample (e.g., lysate, cell culture). After the first affinity chromatography step is run on an IMAC column, the purity level is usually moderate (> 80%).

Characteristic

Contains a HisTrap HP column 1 mL prepacked with Ni Sepharose High Performance (HP) affinity resin for preparative purification of his-tagged proteins.

You achieve final purity with HiPrep 16/60 Sephacryl S-200 HR size exclusion chromatography column, which removes any remaining trace of impurities or closely related substances and imidazole.

Includes instructions with guidance and tips showing you how to get started.

Applications

Purification of his-tagged proteins

Storage

4°C to 30°C

Binding buffer

20 mM sodium phosphate, 500 mM NaCl, 20 to 40 mM imidazole, pH 7.4 (the optimal imidazole concentration is protein-dependent; 20 to 40 mM is suitable for many proteins).

Elution buffer

20 mM sodium phosphate, 500 mM NaCl, 500 mM imidazole, pH 7.4.

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Pack size

1 kit
