

IgG Sepharose 6 Fast Flow affinity resin

Product Information

Cat#No# Ig-372C

Product Overview

IgG Sepharose 6 Fast Flow uses the rigid Sepharose 6 Fast Flow matrix, covalently coupled with human IgG, to purify protein A-containing proteins.

Designed for rapid, single-step purification of protein A and protein A fusion conjugates.

Binds at least 2 mg protein A/mL resin.

Suitable for tandem affinity purification (TAP) of protein complexes.

Description

IgG Sepharose 6 Fast Flow is based on the rigid Sepharose 6 Fast Flow matrix, with human IgG covalently coupled to it. The improved mechanical characteristics of this fast flow medium allows high flow rates to be used for rapid and convenient single step purification of protein A fusion protein conjugates produced in prokaryotic expression systems. IgG Sepharose can be used in combination with Calmodulin Sepharose for tandem affinity chromatography(TAP) purification of protein complexes.

Applications

Recombinant tagged proteins containing a protein A tag.

Maximum operating pressure

Base matrix: 250-400 cm/h, 100 kPa, XK 50/60 column, bed height 25 cm

Packing Column

1. IgG Sepharose 6 Fast Flow is supplied as a suspension in 50mM K₂ PO₄ , pH 7.2, 1mM MgCl₂, 20% ethanol as preservative.

2. Pack the IgG Sepharose 6 Fast Flow suspension in any Cytiva column of suitable size. The column may be operated by gravity feed.

Matrix

Highly cross-linked 6% agarose

Average particle size

IgG Sepharose 6 Fast Flow affinity resin

~90 µm

Ligand

Human IgG

Dynamic binding capacity

~3 mg Protein A

Recommended flow rate

< 150 cm/h (49 ml/min using XK 50/30 column)

Recommended column height

25 cm

Chemical stability

Stable to commonly used aqueous buffers

pH working range

3–10

CIP stability

3–10

Temperature stability

2°C to 8°C

Storage

2 to 8°C, 20% Ethanol, 50 mM K₂HPO₄, 1mM MgCl₂ pH 7.2 in 20% Ethanol

Elution buffer

0.1 M glycine-HCl, pH 3.0.

0.5 M lithium diiodosalicylate dissolved in water. Other chaotropic salts may also be used.

Equilibration

Equilibrate the column with 2–3 bed volumes each of 0.5 M HAc, pH 3.4, TST, 0.5 M HAc, pH 3.4, TST.

IgG Sepharose 6 Fast Flow affinity resin

Elution

Elute the sample with 0.5 M HAc, pH 3.4.

Pack size

10 mL

Maximum flow velocity

300 cm/h (98 ml/min), using XK 50/30 column with 15 cm bed height, run at room temperature with aqueous buffer.
