abcam

## Product datasheet

# Heparin Sepharose® ab193268

### Overview

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| **Product name** | Heparin Sepharose® |
| **Assay type** | Bead-based sandwich immunoassay (quantitative, multiplexable) |
| **Sensitivity** | >= 0.4 mg/ml |
| **Product overview** | High binding capacity (>0.4mg/mL). Minimal leaching of ligand. For column or batch purification of heparin-binding proteins & cation exchange (ab193268). |

**Contents:**

Supplied as a 50% slurry in 20 % Ethanol; >2.5 mg heparin per mL Sepharose® beads.

**Features:**

Heparin beads have been widely used in affinity purification of various heparin-binding proteins or ligands, such as antithrombin III, lipoprotein, as well as DNA binding proteins (transcription factors, virus coat proteins etc). Abcam's Heparin Sepharose® is designed for purification of heparin-binding proteins and ligands. It can also be used as a high capacity cation exchange medium. Specific proteins can be separated by using different concentrations of salt or a salt gradient. This Heparin Sepharose® formulation exhibits excellent binding capacity, high flow rate, no significant loss of the heparin ligand and a pH stability range of 2-10.

These beads are for use in column purification. If used in batch purification, we recommend not exceeding 150 x *g* when centrifuging.

Store beads at 4°C.

The beads may be damaged above 40°C.

DO NOT FREEZE.

Wash beads 3 times with 3x bead volume of desired buffer before use.

**Applications:**

Purification of heparin-binding proteins, enzymes or other ligands.

Sepharose is a registered trademark of GE Healthcare

**Notes**

This product is manufactured by BioVision, an Abcam company and was previously called 6553 Heparin Sepharose. 6553-10 is the same size as the 10 ml size of ab193268.

Heparin Sepharose® is prepared by covalently coupling heparin to epoxy-activated 6% cross-linked Sepharose® beads. The coupling was optimized to give a high binding capacity and could be greater than 0.4 mg of heparin-binding protein (such as thrombin) per ml of wet gel.

**Suggested Protocol:**

Wash column with ddH2O to remove air bubbles.
Fill column with heparin beads.
Wash the column with 5X volume of Binding Buffer.
Dilute sample with Binding Buffer (1:1 ratio) or change the sample solution to binding buffer by means of your choice.
Add the sample solution onto the column.
Collect the solution and repeat step 5 & 6 several times if necessary.
Wash the column 5-10 times with the Binding Buffer.
Add Elution Buffer to elute bound protein.
Collect the eluent using microcentrifuge tube.
Assay protein concentration and combine the fractions containing sufficient heparin- binding protein.
Bead can be cleaned and regenerated by washing with 2-3x volume of high concentration salt solution and then the binding buffer.

**Tested applications**

**Suitable for:** Purification

## Properties

**Storage instructions**

Store at +4°C. Please refer to protocols.

| Components | 10 ml | 1 ml | 50 ml |
|---|---|---|---|
| Heparin Sepharose® | 1 x 10ml | 1 x 1ml | 1 x 50ml |

## Applications

**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab193268 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **Purification** | | Use at an assay dependent concentration.<br>Purification of heparin-binding proteins, enzymes or other ligands. |

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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