# Human EPHA4 Protein, Ultra Low Endotoxin

**Cat. No.** EPH-HM104-UL

## Description

| | |
|---|---|
| **Source** | Recombinant Human EPHA4 Protein is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Val20-Thr547. |
| **Accession** | P54764-1 |
| **Molecular Weight** | The protein has a predicted MW of 59.5 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 0.01 EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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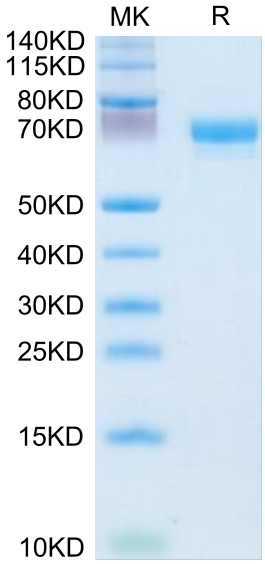
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

The expression and activation of EphA4 in the various cell types in a knee joint was upregulated upon an intraarticular injury. To determine if EphA4 signaling plays a role in osteoarthritis, we determined whether deficient EphA4 expression (in EphA4 knockout mice) or upregulation of the EphA4 signaling (with the EfnA4-fc treatment) would alter cellular functions of synoviocytes and articular chondrocytes. In synoviocytes, deficient EphA4 expression enhanced, whereas activation of the EphA4 signaling reduced, expression and secretion of key inflammatory cytokines and matrix metalloproteases.

## Assay Data

**Bis-Tris PAGE**




Human EPHA4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**

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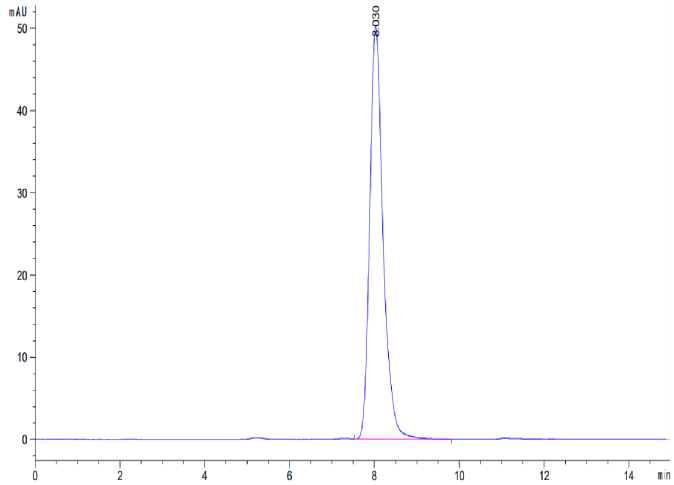


The purity of Human EPHA4 is greater than 95% as determined by SEC-HPLC.