# Human TrkA Protein, Ultra Low Endotoxin

**Cat. No.** TRK-HM10A-UL

## Description

| | |
|---|---|
| **Source** | Recombinant Human TrkA Protein is expressed from HEK293 with His tag at the C-terminus. |
| | It contains Ala33-Gly417. |
| **Accession** | P04629-1 |
| **Molecular Weight** | The protein has a predicted MW of 43.00 kDa. Due to glycosylation, the protein migrates to 70-100 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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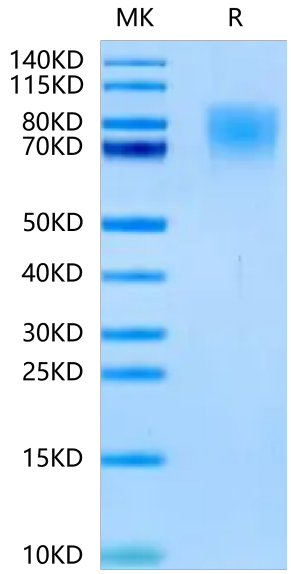
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| **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

TrkA, a tyrosine kinase receptor, is an essential component of the nerve growth factor (NGF) response pathway. The binding of NGF to the receptor induces receptor autophosphorylation and activation of intracellular signaling pathways, resulting in diverse biological effects.

## Assay Data

**Bis-Tris PAGE**




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

**SEC-HPLC**

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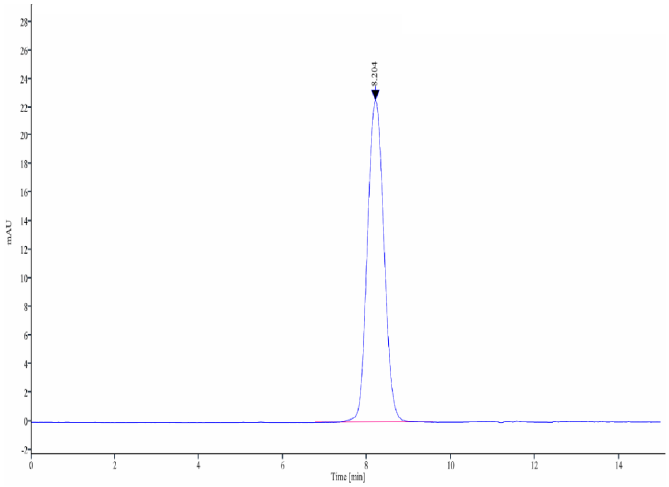
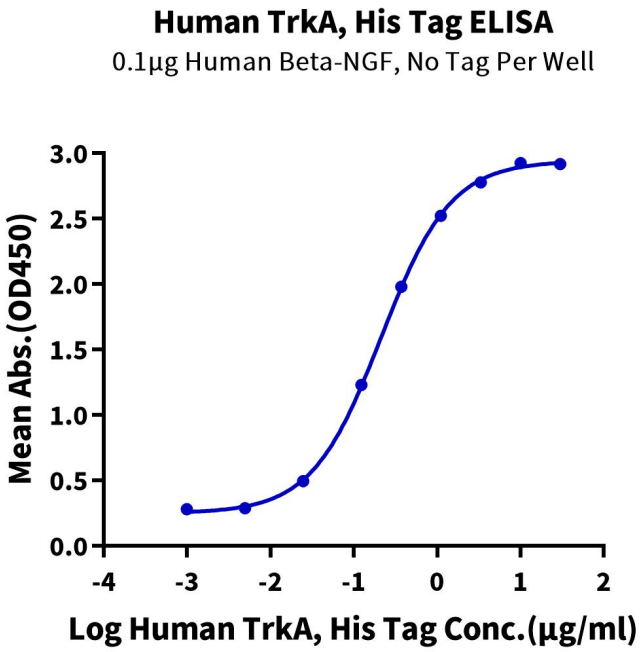



The purity of Human TrkA is greater than 95% as determined by SEC-HPLC.

ELISA Data




Immobilized Human Beta-NGF, No Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Human TrkA, His Tag with the EC50 of 0.21μg/ml determined by ELISA.