

Human MERTK/Mer Protein



Cat. No. MEK-HM301

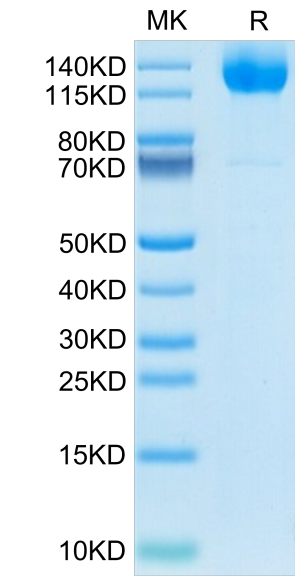
| Description | |
|------------------|--|
| Source | Recombinant Human MERTK/Mer Protein is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus. It contains Ala21-Ile505. |
| Accession | Q12866-1 |
| Molecular Weight | The protein has a predicted MW of 78.9 kDa. Due to glycosylation, the protein migrates to 115-140 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1 EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

| Formulation and Storage | |
|-------------------------|---|
| 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 | |
|---|--|
| MER tyrosine kinase (MERTK) encodes a surface receptor localized at the apical membrane of the retinal pigment epithelium. It plays a critical role in photoreceptor outer segment internalization prior to phagocytosis. Mutations in MERTK have been associated with severe autosomal recessive retinal dystrophies in the RCS rat and in humans. | |

Assay Data

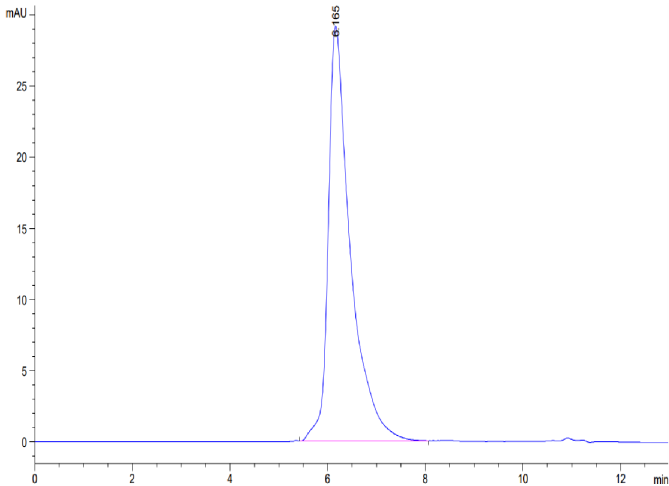
Bis-Tris PAGE



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

SEC-HPLC

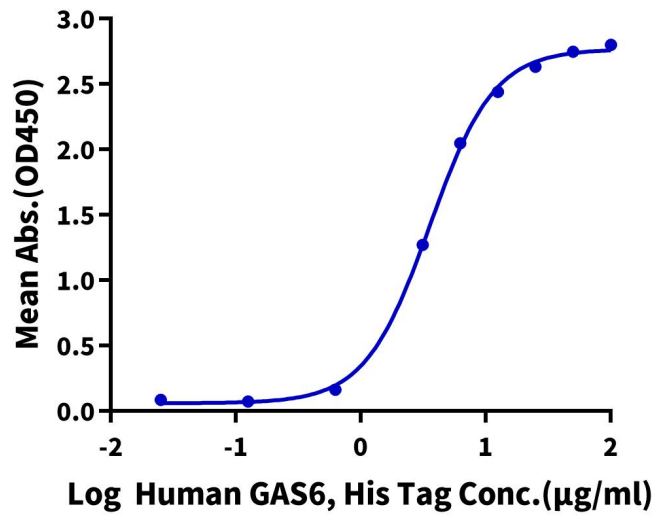
Assay Data



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

ELISA Data

Human MERTK, mFc Tag ELISA
0.5µg Human MERTK, mFc Tag Per Well



Immobilized Human MERTK, mFc Tag at 5µg/ml(100µl/well) on the plate. Dose response curve for Human GAS6, His Tag with the EC50 of 3.55µg/ml determined by ELISA (QC Test).