

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 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

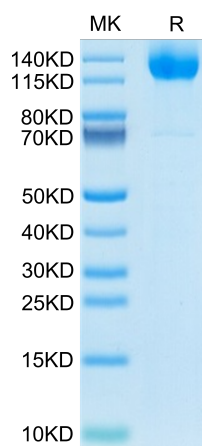
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
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.

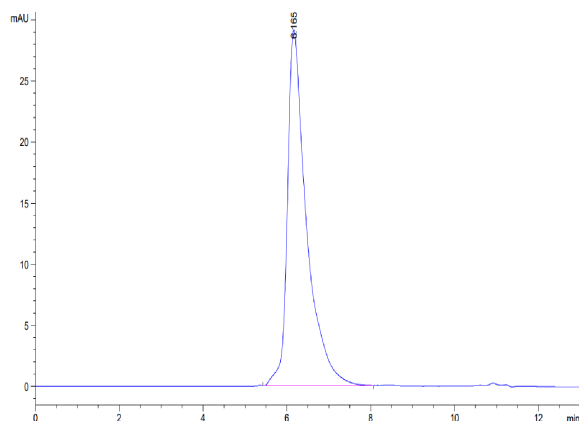
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



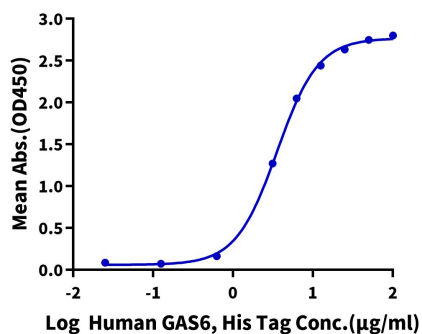
The purity of Human MERTK is greater than 95% as determined by SEC-HPLC.

Assay Data

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).