

Synonym

MERTK,Mer

Source

Cynomolgus MERTK, Fc Tag(MEK-C5253) is expressed from human 293 cells (HEK293). It contains AA Ala 23- Ile 507 (Accession # [XP_005575320.1](#)).

Predicted N-terminus: Ala 23

Molecular Characterization

MERTK(Ala 23- Ile 507)	Fc(Pro 100 - Lys 330)
XP_005575320.1	P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 79.1 kDa. The protein migrates as 100-150 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

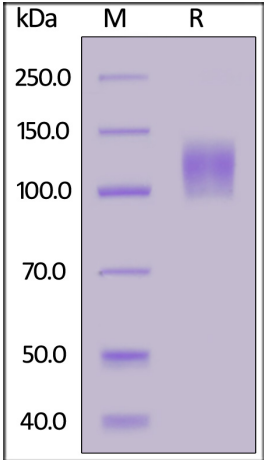
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

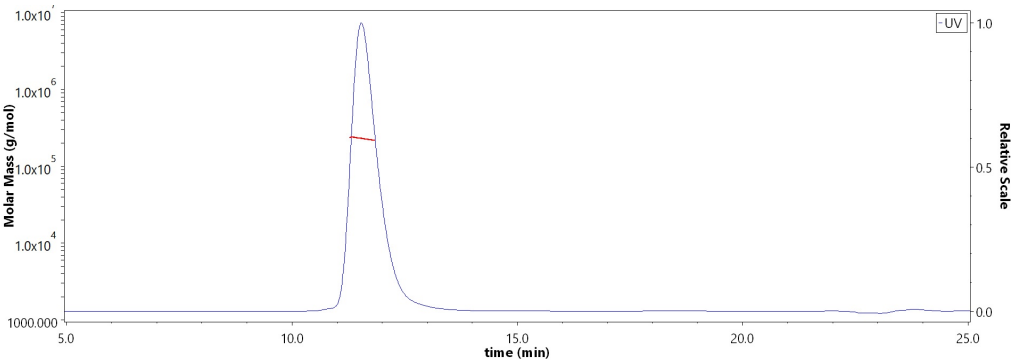
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Cynomolgus MERTK, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Cynomolgus MERTK, Fc Tag (Cat. No. MEK-C5253) is more than 90% and the molecular weight of this protein is around 206-251 kDa verified by SEC-MALS.

[Report](#)

Background

Tyrosine-protein kinase Mer(MERTK) is a member of the TYRO3/AXL/MER (TAM) receptor kinase family and encodes a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type (immunoglobulin-like) domains, and one tyrosine kinase domain. Following activation by ligand, interacts with



Cynomolgus MERTK / Mer Protein, Fc Tag (MALS verified)

Catalog # MEK-C5253



GRB2 or PLCG2 and induces phosphorylation of MAPK1, MAPK2, FAK/PTK2 or RAC1. MERTK signaling plays a role in various processes such as macrophage clearance of apoptotic cells, platelet aggregation, cytoskeleton reorganization and engulfment. Functions in the retinal pigment epithelium (RPE) as a regulator of rod outer segments fragments phagocytosis. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.

