

## Mer Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P70958
<b>Synonyms:</b>	Tyrosine-protein kinase Mer/Proto-oncogene c-Mer/Receptor tyrosine kinase MerTK/MERTK/MER
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q1RMG3 (M1-A323)
<b>Gene ID:</b>	10461
<b>Molecular Weight:</b>	60-120 kDa

### PROPERTIES

#### AA Sequence

```

MKINNEEIVS   DPIYIEVQGL   PHFTKQPESM   NVTRNTAFNL
TCQAVGPPPEP  VNI FWVQNSS  RVNEQPEKSP   SVLTVPLTE
MAVFSCEAHN   DKGLTVSKGV   QINIKAI PSP   PTEVSIRNST
AHSILISWVP   GFDGYSPFRN   CSIQVKEADP   LSNGSVMIFN
TSALPHLYQI   KQLQALANYS   IGVSCMNEIG   WSAVSPWILA
STTEGAPSV A   PLNVTVFLNE   SSDNVDIRWM   KPPTKQQDGE
LVGYRISHVW   QSAGISKELL   EEVGQNGSRA   RISVQVHNAT
CTVRIAAVTK   GGVGPFSDPV   KIFIPA HWV   DYAPSS TPAP
GNA
  
```

#### Biological Activity

The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

#### Endotoxin Level

<1 EU/µg, determined by LAL method.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

#### Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

#### Shipping

Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

#### Background

MER proto-oncogene tyrosine kinase (MERTK) is a member of the MER/AXL/TYRO3 receptor kinase family and a

---

transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type domains, and one tyrosine kinase domain. MERTK has oncogenic properties and is often overexpressed or activated in various malignancies, activating several downstream signaling pathways including MAPK/ERK, PI3K/AKT, and JAK/STAT. MERTK has transmembrane receptor protein tyrosine kinase activity and is involved in animal organ development, synapse elimination, neutrophil clearance and protein kinase B signaling. Mutations in MERTK have been associated with disruption of the retinal pigment epithelium (RPE) phagocytosis pathway and onset of autosomal recessive retinitis pigmentosa (RP)<sup>[1][2]</sup>.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA