

## Recombinant Human MERTK

Cat. No. MERTK-30094TH Lot. No. (See product label)

### SPECIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Overview</b>    | Recombinant fragment, corresponding to amino acids 578-872 of Human MERTK, expressed by baculovirus in Sf9 insect cells using an N-terminal tag, 58kDa.  |
| <b>Species</b>             | Human  |
| <b>ProteinLength</b>       | 578-872 a.a.   |
| <b>Description</b>         | This gene is a member of the MER/AXL/TYRO3 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. Mutations in this gene have been associated with disruption of the retinal pigment epithelium (RPE) phagocytosis pathway and onset of autosomal recessive retinitis pigmentosa (RP). |
| <b>Tissue specificity</b>  | Not expressed in normal B- and T-lymphocytes but is expressed in numerous neoplastic B- and T-cell lines.  |
| <b>Biological activity</b> | The Specific activity of MERTK-30094TH was determined to be 1231 nmol/min/mg.  |
| <b>Form</b>                | Liquid   |
| <b>Storage buffer</b>      | Preservative: None<br>Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5   |
| <b>Storage</b>             | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.  |

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**Sequence Similarities** Belongs to the protein kinase superfamily. Tyr protein kinase family. AXL/UFO subfamily. Contains 2 fibronectin type-III domains. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.

## GENE INFORMATION

**Gene Name** [MERTK c-mer proto-oncogene tyrosine kinase \[ Homo sapiens \]](#)

**Official Symbol** [MERTK](#)

**Synonyms** MERTK; c-mer proto-oncogene tyrosine kinase; tyrosine-protein kinase Mer; mer; RP38;

**Gene ID** [10461](#)

**mRNA Refseq** [NM\\_006343](#)

**Protein Refseq** [NP\\_006334](#)

**MIM** [604705](#)

**Uniprot ID** [Q12866](#)

**Chromosome Location** 2q14.1

**Pathway** Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem;

**Function** ATP binding; nucleotide binding; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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