

## Product datasheet for **TP525392**

### Mertk (NM\_008587) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse MER proto-oncogene tyrosine kinase (Mertk), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR225392 representing NM_008587 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MVLAPLLLGLLLLALWSGGTAEKWEETELDQLFSGPLPGRLPVNHRPFSAPHSSRDQLPPPQTGRSHPA  
HTAAPQVTSTASKLLPPVAFNHTIGHIVLSEHKNVKFNCSINIPNTYQETAGISWWKDGKELLAGHSIT  
QFYPDEEGVSIALFSIASVQRSDNGSYFCKMKVNNREIVSDPIYVEVQGLPYFIKQPEVNVTRNTAFN  
LTCQAVGPPEPVNIFWVQNSSRVNEKPERSPSVLTVPLTETAVFSCEAHNDKGLTVSKGVHINIKVIPS  
PPTVEVHILNSTAHSILVSWVPGFDGYSPLQNCISIQVKEADRLSNGSVMVFNTSASPHLYEIQQLQALANY  
SIAVSCRNEIGWSAVSPWILASTTEGAPSVAPLNITVFLNESNNILDIRWTKPPIKRQDGELVGYRISHV  
WESAGTYKELSEEVSQNGSWAQIPVQIHNATCTVRIAAITKGGIGPFSEPVNIIPEHSKVDYAPSSTPA  
PGNTDSMFIILGFCGFIILGILCISLALRRRVQETKFGGAFSEEDSQLVNVYRAKKSFCRAIETLQ  
SLGVSEELQNKLEDVVIDRNLVGLKVLGEGEFGSVMEGNLKQEDGTSQKVAVKTMKLDNFSQREIEEFL  
SEAACMKDFNHPNVIRLLGVCIELSSQGIPKPMVILPFMKYGDHLHTFLLYSRLNTGPKYIHLQTLKFM  
DIAQGMELSNRNFLHRDLAARNCLRDDMTVCVADFGLSKKIYSGDYRQGRIAKMPVKWIAIESLADR  
VYTSKSDVWAFGVTMWEITTRGMTYPYGVQNHMYDYLLHGHRLKQPEDCLDELYDIMYSCWSADPLDRP  
TFSVLRQLLEKLSLPDAQDKESIYINTQLLESCEGIANGPSLTGLDMNIDPDSIIASCTPGAASVW  
TAEVHNNLREERYILNNGNEEWEDVSSTPFAAVTPEKDGVLPEDRLTKNVSWSHHSTLPLGSPSPDEL  
LFVDDSLLEDSEVLM

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	110.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_032613</a>
<b>Locus ID:</b>	17289
<b>UniProt ID:</b>	<a href="#">Q60805</a>
<b>RefSeq Size:</b>	3564
<b>Cytogenetics:</b>	2 F1
<b>RefSeq ORF:</b>	2982
<b>Synonyms:</b>	Eyk; Mer; nmf12; Nyk
<b>Summary:</b>	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including LGALS3, TUB, TULP1 or GAS6. Regulates many physiological processes including cell survival, migration, differentiation, and phagocytosis of apoptotic cells (efferocytosis). Ligand binding at the cell surface induces autophosphorylation of MERTK on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with 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.[UniProtKB/Swiss-Prot Function]