

MER recombinant protein

Recombinant MER (528-999) protein

CATALOG # AAA60246	HOST Baculovirus
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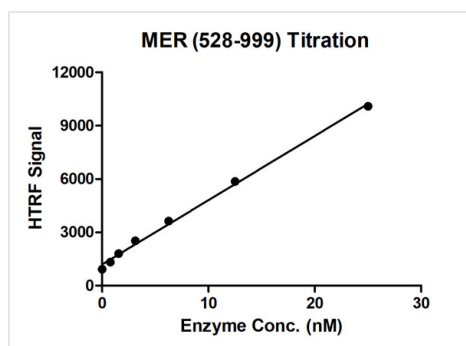
PRODUCT SYNONYMS

MER; Recombinant MER (528-999) protein; MER Proto-Oncogene Tyrosine Kinase; MERTK; MER recombinant protein

PRODUCT SPECIFICATIONS

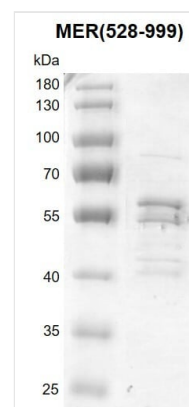
Host	Baculovirus
Form/Format	Recombinant MER (528-999) protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant MER(528-999) protein that includes amino acids 528-999 of human MER protein (accession number NP_006334.2) was expressed in a baculovirus expression system, and contains an N-terminal DYKDDDDK tag.
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



Application Data

HTRF assay for MER (528-999) activity 1 uM TK substrate was incubated with different concentrations of JAK1 (866-1154) protein in a 10 ul reaction system containing 1xEnzymatic Buffer, 5 mM MgCl₂, 1 mM MnCl₂, 1 mM DTT, and 100 uM ATP for 1 hour. Then 10 ul detection reagents containing TK antibody (1:2) and SA-XL665 (1:100) diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



SDS-PAGE

Recombinant MER(528-999) protein 10% SDS-PAGE gel with Coomassie blue staining MW: 54 kDa Purity: >50%

ADDITIONAL INFORMATION

Related Product Information for MER recombinant protein	Background: MERTK (MER Proto-Oncogene, Tyrosine Kinase) is a receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including LGALS3, TUB, TULP1 or GAS6. MER 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, MERTK interacts with GRB2 or PLCG2 and induces phosphorylation of MAPK1, MAPK2, FAK/PTK2 or RAC1. Diseases associated with MERTK include Retinitis Pigmentosa 38 and Retinitis Pigmentosa.
Product Categories/Family for MER recombinant protein	Recombinant Proteins ; Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	66932918
NCBI GeneID	10461
NCBI Accession #	NP_006334.2
NCBI GenBank Nucleotide #	NM_006343.2
UniProt Accession #	Q12866; Q9HBB4
Molecular Weight	110,249 Da
NCBI Official Full Name	tyrosine-protein kinase Mer
NCBI Official Synonym Full Names	c-mer proto-oncogene tyrosine kinase
NCBI Official Symbol	MERTK
NCBI Official Synonym Symbols	MER; RP38; c-mer
NCBI Protein Information	tyrosine-protein kinase Mer; STK kinase; proto-oncogene c-Mer; MER receptor tyrosine kinase; receptor tyrosine kinase MerTK
UniProt Protein Name	Tyrosine-protein kinase Mer
UniProt Gene Name	MERTK
UniProt Synonym Gene Names	MER
UniProt Entry Name	MERTK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mertk-recombinant-protein-baculovirus/60246>