

Recombinant mouse Mer protein

Catalog Number: ATGP3906

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-497aa

UniProt No.

Q60805

NCBI Accession No.

NP_032613

Alternative Names

Mertk, Proto-oncogene c-Mer, Receptor tyrosine kinase MerTK, Eyk, Mer, nmf12, Nyk, Tyrosine-protein kinase Mer

PRODUCT SPECIFICATION

Molecular Weight

79.2 kDa (718aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Mer, also known as Tyrosine-protein kinase Mer, is one of the receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm. It regulates many physiological processes including cell survival, migration, differentiation, and phagocytosis of apoptotic cells. This protein plays a role in various processes such as macrophage clearance of apoptotic cells, platelet aggregation, cytoskeleton reorganization

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and engulfment. Mutations in this protein have been associated with disruption of the retinal pigment epithelium (RPE) phagocytosis pathway and onset of autosomal recessive retinitis pigmentosa (RP). Recombinant mouse Mer, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

GGTAEKWEET ELDQLFSGPL PGRLPVNHPR FSAPHSSRDQ LPPPQTGRSH PAHTAAPQVT STASKLLPPV AFNHTIGHIV
LSEHKNVKFN CSINIPNTYQ ETAGISWWKD GKELLGAHHS ITQFYPDEEG VSIILFSIA SVQRSDNGSY FCKMKVNNRE
IVSDPIYVEV QGLPYFIKQP ESNVTRNTA FNLTCQAVGP PEPVNIFWVQ NSSRVNEKPE RSPSVLTPVG LTETAVFSCE
AHNDKGLTVS KGVHINIKVI PSPPTEVHIL NSTAHSILVS WVPGFDGYSP LQNCISIQVKE ADRLSNGSVM VFNTSASPHL
YEIQQQLQALA NYSIAVSCRN EIGWSAVSPW ILASTTEGAP SVAPLNITVF LNESNNILDI RWTKPPIKRQ DGELVGYRIS
HVWESAGTYK ELSEEVSQNG SWAQIPVQIH NATCTVRIAA ITKGGIGPFS EPVNIHPEH SKVDYAPSST PAPGNTDSM<L
EPKSCDKTHT CPPCPAPELL GGPSVFLFPP KPKDTLMISR TPEVTCVVVD VSHEDPEVKF NWYVDGVEVH NAKTKPREEQ
YNSTYRVVSV LTVLHQDWLN GKEYKCKVSN KALPAIEKT ISKAKGQPRE PQVYTLPPSR DELTKNQVSL TCLVKGFYPS
DIAVEWESNG QPENNYKTP PVLDSGGSFF LYSKLTVDKS RWQQGNVFSC SVMHEALHNNH YTKSLSLSP GKHHHHHH>

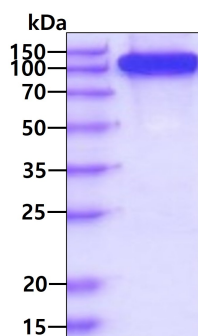
General References

Grabiec AM., et al. (2018) Eur J Immunol. 48:855-860.

McHenry CL., et al. (2004) Invest Ophthalmol Vis Sci. 45:1456-1463.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.