

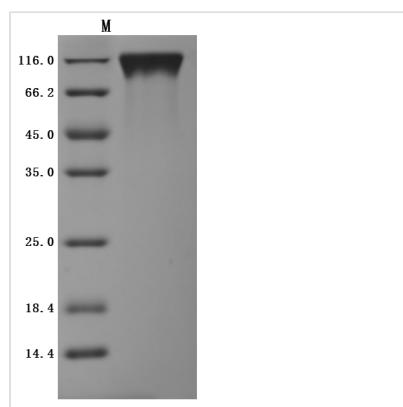


Recombinant Human Tyrosine-protein kinase Mer (MERTK), partial (Active)

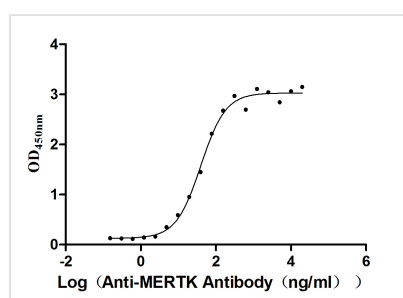
Product Code	CSB-MP621519HU
Abbreviation	Recombinant Human MERTK protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q12866
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 0.2 M Arg, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized MERTK at 2 µg/mL can bind anti-MERTK antibody?CSB-RA621519A1HU?, the EC ₅₀ is 32.95-48.25 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Sequence	AITEAREEAKPYPLFPGPFGSLQTDHTPLLSLPHASGYQPALMFSPQTQGRP HTGNVAIPQVTSVESKPLPPLAFKHTVGHILSEHKGVKFNCSSISVPNIYQDTTIS WWKDGKELLGAHHAITQFYDPDEVTAIASFISITSVQSRSDNGSYICKMKINNEEI VSDPIYIEVQGLPHFTKQPESMNVTNTAFNLTCQAVGPPEPVNIFWVQNSSR VNEQPEKSPSVLTVPGLTEMAVFSCEAHNDKGLTVSKGVQINIKAIKSPPTTEVSI RNSTAHSILISWVPGFDGYSPFRNCSIQVKEADPLSNGSVMIFNTSALPHLYQI KQLQALANYSIGVSCMNEIGWSAVSPWILASTTEGAPSVAPLNVTVFLNESSD NVDIRWMKPPTKQQDGELVGYRISHVWQSAGISKELLEEVGQNGSRARISVQ VHNATCTVRIAIVTRGGVGPFSPPVKIFIPAHGWVDYAPSSTPAPGNADPVLII
Research Area	Neuroscience
Source	Mammalian cell
Target Names	MERTK
Expression Region	21-505aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	55.4 kDa
Protein Length	Partial



Image

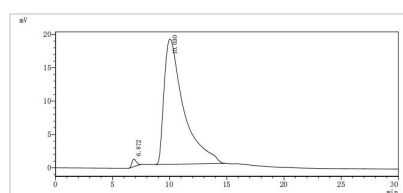


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized MERTK at 2 μ g/ml can bind anti-MERTK antibody?CSB-RA621519A1HU?, the EC_{50} is 32.95-48.25 ng/mL.



The purity of MERTK was greater than 95% as determined by SEC-HPLC

Description

The MERTK protein CSB-MP621519HU is a recombinant human protein produced in mammalian cells. It is a partial length protein containing amino acids Ala21-Ile505 of the human MERTK and is labeled with 10xHis-tag at the C-terminus. This MERTK protein is biologically active, low in endotoxin content (less than 1EU/ μ g), and high in purity (greater than 95%). In the functional ELISA, this MERTK can bind to the anti-MERTK antibody with the EC_{50} of 32.95-48.25 ng/mL. It showed an apparent molecular weight of about 90 kDa on the gel.

MERTK is a member of the receptor tyrosine kinase family which is widely expressed in many tissues throughout the body. MERTK is involved in various biological processes, including the modulation of apoptosis, proliferation, migration, and invasion of cells. These processes are regulated mainly through the PI3K-Akt signaling pathway and MAPK signaling pathway. Increasing evidence has found that the regulation of MERTK-mediated signaling pathways can promote tumor cell apoptosis and inhibit tumor cell proliferation, invasion, migration, and angiogenesis. Targeting drug cancer therapy based on the MERTK signaling pathway has gradually become a hotspot of clinical research.

Endotoxin

Less than 1.0 EU/ μ g as determined by LAL method.



Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.