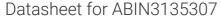
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MERTK Protein (AA 519-994) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	MERTK
Protein Characteristics:	AA 519-994
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MERTK protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

ALRRRVQETK FGGAFSEEDS QLVVNYRAKK SFCRRAIELT LQSLGVSEEL QNKLEDVVID RNLLVLGKVL GEGEFGSVME GNLKQEDGTS QKVAVKTMKL DNFSQREIEE FLSEAACMKD FNHPNVIRLL GVCIELSSQG IPKPMVILPF MKYGDLHTFL LYSRLNTGPK YIHLQTLLKF MMDIAQGMEY LSNRNFLHRD LAARNCMLRD DMTVCVADFG LSKKIYSGDY YRQGRIAKMP VKWIAIESLA DRVYTSKSDV WAFGVTMWEI TTRGMTPYPG VQNHEMYDYL LHGHRLKQPE DCLDELYDIM YSCWSADPLD RPTFSVLRLQ LEKLSESLPD AQDKESIIYI NTQLLESCEG IANGPSLTGL DMNIDPDSII ASCTPGAAVS VVTAEVHENN LREERYILNG GNEEWEDVSS TPFAAVTPEK DGVLPEDRLT KNGVSWSHHS TLPLGSPSPD ELLFVDDSLE DSEVLM Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- · Mouse Mertk Protein (raised in Insect Cells) purified by multi-step, protein-specific process to

ensure crystallization grade.

· State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target: MERTK

Alternative Name: Mertk (MERTK Products)

Target Details

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Background:	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. {ECO:0000269 PubMed:19117932, ECO:0000269 PubMed:20363878}.
Molecular Weight:	54.7 kDa Including tag.
UniProt:	Q60805
Pathways:	RTK Signaling
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

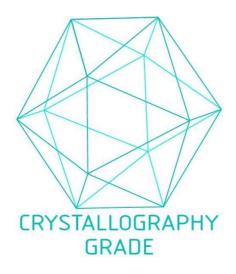


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process