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MAP2K7 Protein (AA 2-535) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	MAP2K7
Protein Characteristics:	AA 2-535
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAP2K7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

AASSLEQKLS RLEAKLKQEN REARRRIDLN LDISPQRPRP IIVITLSPAP APSQRAALQL PLANDGGSRS PSSESSPQHP TPPTRPRHML GLPSTLFTPR SMESIEIDQK LQEIMKQTGY LTIGGQRYQA EINDLENLGE MGSGTCGQVW KMRFRKTGHI IAVKQMRRSG NKEENKRILM DLDVVLKSHD CPYIVQCFGT FITNTDVFIA MELMGTCAEK LKKRMQGPIP ERILGKMTVA IVKALYYLKE KHGVIHRDVK PSNILLDERG QIKLCDFGIS GRLVDSKAKT RSAGCAAYMA PERIDPPDPT KPDYDIRADV WSLGISLVEL ATGQFPYKNC KTDFEVLTKV LQEEPPLLPG HMGFSGDFQS FVKDCLTKDH RKRPKYNKLL EHSFIKHYEI LEVDVASWFK DVMAKTESPR TSGVLSQHHL PFFSTSVTWG AWPLAAQTPF QSGVIRCRGR VPSPRRATGG SGGQPCVCAG GPGPSFTEMG PSPSPMLSNT FFTPDPGACP GASTWGLPRR RLCQLLTTST PGCC 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 Map2k7 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 protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

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:

- 1. 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.
- 2. 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:	MAP2K7
Alternative Name:	Map2k7 (MAP2K7 Products)
Background:	Dual specificity protein kinase which acts as an essential component of the MAP kinase signal
	transduction pathway. Essential component of the stress-activated protein kinase/c-Jun N-
	terminal kinase (SAP/JNK) signaling pathway. With MAP2K4/MKK4, is the one of the only
	known kinase to directly activate the stress-activated protein kinase/c-Jun N-terminal kinases
	MAPK8/JNK1, MAPK9/JNK2 and MAPK10/JNK3. MAP2K4/MKK4 and MAP2K7/MKK7 both
	activate the JNKs by phosphorylation, but they differ in their preference for the phosphorylation
	site in the Thr-Pro-Tyr motif. MAP2K4/MKK4 shows preference for phosphorylation of the Tyr
	residue and MAP2K7/MKK7 for the Thr residue. The monophosphorylation of JNKs on the Thr
	residue is sufficient to increase JNK activity indicating that MAP2K7/MKK7 is important to
	trigger JNK activity, while the additional phosphorylation of the Tyr residue by MAP2K4/MKK4
	ensures optimal JNK activation. Has a specific role in JNK signal transduction pathway
	activated by proinflammatory cytokines. The MKK/JNK signaling pathway is also involved in
	mitochondrial death signaling pathway, including the release cytochrome c, leading to
	apoptosis. {ECO:0000269 PubMed:11390361, ECO:0000269 PubMed:12624093,
	ECO:0000269 PubMed:9312105, ECO:0000269 PubMed:9384583,
	ECO:0000269 PubMed:9405446, ECO:0000269 PubMed:9535930,
	ECO:0000269 PubMed:9891090}.
Molecular Weight:	60.1 kDa Including tag.
UniProt:	Q8CE90
Pathways:	MAPK Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Activation of Innate
	immune Response, Toll-Like Receptors Cascades, BCR 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
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

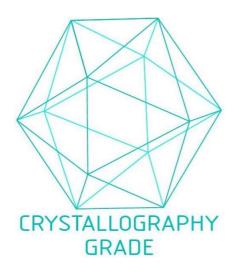


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process