

MAP2K7 recombinant protein

Recombinant MAP2K7 (MEK7) protein

CATALOG # AAA60411	HOST Baculovirus
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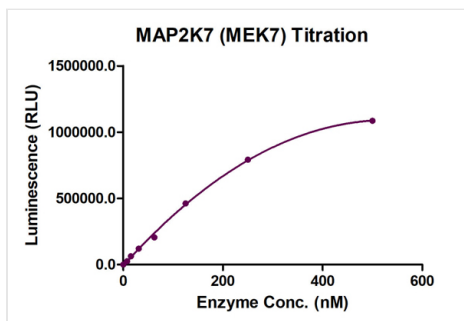
PRODUCT SYNONYMS

MAP2K7; Recombinant MAP2K7 (MEK7) protein; Mitogen Activated Protein Kinase Kinase 7; MKK7; Kinase 7; JNKK2; MAPLL7; MEK; MEK7; PRKMK7; SAPKK-4; MAP2K7 recombinant protein

PRODUCT SPECIFICATIONS

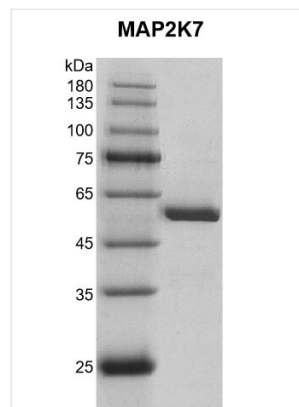
Host	Baculovirus
Form/Format	Recombinant MAP2K7 (MEK7) protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Protein Details	Recombinant MAP2K7 (MEK7) protein was expressed in a baculovirus expression system as the full length protein (accession number NP_660186.1) with an N-terminal DYKDDDDK tag. The molecular weight of the protein is 48.77kDa.
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.

IMAGES



Application Data

ADP-Glo assay for MAP2K7 (MEK7) activity 1 uM JNK2 was incubated with different concentrations of MAP2K7 (MEK7) protein in a 10 ul reaction system containing 40 mM Tris-HCl pH 7.4, 20 mM MgCl₂, 50 uM DTT, 0.1 mg/ml BSA and 100 uM ATP for 1 hour, then add 10 ul ADP-Glo Reagent at 25 degree C for 60min. Then 20 ul Kinase Detection Reagent incubates at 25 degree C for 60min. All the operations and reactions were performed at RT. Finally, Luminescence measurement is collected by BMG.



SDS-PAGE

Recombinant MAP2K7 (MEK7) protein gel. Recombinant MAP2K7 protein was run on an 10 % SDS-PAGE gel and stained with Coomassie blue. MW: 48.77kDa Purity: > 95%

ADDITIONAL INFORMATION

Related Product Information for MAP2K7 recombinant protein	MAP2K7 (Dual specificity mitogen-activated protein kinase kinase 7), also known as JNKK2, MAPKK7, MEK, MEK 7, MKK7, PRKMK7, SAPKK-4 and SAPKK4. MAP2K7 is a 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 pro-inflammatory cytokines. The MKK/JNK signaling pathway is also involved in mitochondrial death signaling pathway, including the release cytochrome c, leading to apoptosis. Part of a non-canonical MAPK signaling pathway, composed of the upstream MAP3K12 kinase and downstream MAP kinases MAPK1/ERK2 and MAPK3/ERK1, that enhances the AP-1-mediated transcription of APP in response to APOE.
Product Categories/Family for MAP2K7 recombinant protein	Kinase; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

Molecular Weight	48.77kDa
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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/map2k7-recombinant-protein-baculovirus/60411>