

MEKK4 recombinant protein

MEKK4, Active

CATALOG #
AAA73657

HOST
Sf9 insect cells

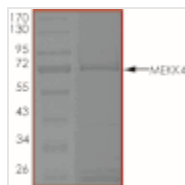
PRODUCT SYNONYMS

MEKK4; Active; MAPKKK4; MEKK 4; MTK1; PRO0412; MEKK4 recombinant protein

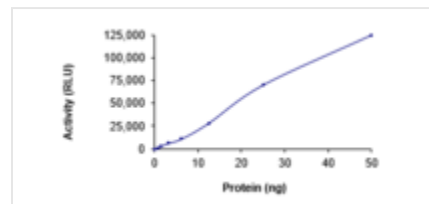
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 25% glycerol.
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES


SDS-PAGE

Purity: Sample purity data. For lot specific data, please refer to the respective datasheet.


Activity

Activity: Sample activity plot. for lot-specific data please refer to the respective datasheet.

ADDITIONAL INFORMATION

Related Product Information for MEKK4 recombinant protein	Recombinant human MEKK4 (1203-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The MEKK4 gene accession number is NM_005922. MEKK4 is one of the MAPKKKs which mediates activation of both p38 and JNK. N-terminal region of MEKK4 contains an autoinhibitory domain that interacts with the C-terminal kinase domain, inhibits kinase activity and prevents interaction with its substrate, MKK6. MEKK4 is activated upon binding of GADD45 by the stress-inducible GADD45 family of proteins (GADD45alpha/beta/gamma). GADD45 binds to the N-terminal region of MEKK4 releasing inhibition of the kinase domain by the autoinhibitory domain (1). MEKK4 is strongly expressed in the developing neuroepithelium and is critical for neural tube closure (2).
Product Categories/Family for MEKK4 recombinant protein	Protein Kinases ; Angiogenesis ; Apoptosis/Autophagy ; Cancer ; Cell Cycle ; Cellular Stress ; Inflammation ; Ser/Thr Kinases
References	- Mita, H. et al: Regulation of MTK1/MEKK4 kinase activity by its N-terminal autoinhibitory domain and GADD45 binding. Mol Cell Biol. 2002; 22(13):4544-4555. doi:10.1128/mcb.22.13.4544-4555.2002. - Chi, H. et al: Loss of mitogen-activated protein kinase kinase 4 (MEKK4) results in enhanced apoptosis and defective neural tube development. Proc Natl Acad Sci U S A. 2005; 102(10):3846-385.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_005922
Molecular Weight	approx. MW: 72kDa

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/mekek4-recombinant-protein-sf9-insect-cells/73657>