HGK recombinant protein

HGK, Active

CATALOG #	HOST	APPLICATIONS
AAA73672	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

HGK; Active; MAP4K4; NIK; FLH21957; FLJ10410; FLJ20373; FLJ90111; KIAA0687; HGK 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, 0.1mM PMSF, 25% glycerol.
Applicable Applications for HGK recombinant protein	WB (Western Blot), Kinase Assay
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 specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for HGK recombinant protein	Recombinant human HGK (1-328) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The protein accession number is NP_004825. HGK is the mitogen-activated protein kinase kinase kinase kinase 4(MAP4K4) and a member of the serine/threonine protein kinase family. HGK has been shown to specifically activate MAPK8/JNK (1). The activation of MAPK8 by HGK can be inhibited by dominant-negative mutants of MAP3K7/TAK1, MAP2K4/MKK4, and MAP2K7/MKK7, which suggest that this kinase functions through the MAP3K7-MAP2K4-MAP2K7 kinase cascade and mediates TNF-alpha signaling. HGK-dependent signaling inhibits PPARgamma-responsive gene expression, adipogenesis, and insulin-stimulated glucose transport (2).
Product Categories/Family for HGK recombinant protein	Protein Kinases; Apoptosis/Autophagy; Cardiovascular Disease; Cellular Stress; Inflammation; JNK/SAPK Pathway; Neurobiology; NfkB Pathway; Ser/Thr Kinases
References	1. Yao, Z. et.al: A novel human STE20-related protein kinase, HGK, that specifically activates the c-jun N-terminal kinase signaling pathway. J. Biol. Chem. 274: 2118-2125, 1999. 2. Tang, X. et.al: An RNA interference-based screen identifies MAP4K4/NIK as a negative regulator of PPAR-gamma, adipogenesis, and insulin-responsive hexose transport. Proc. Nat. Acad. Sci. 103: 2087-2092, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	336020353
NCBI GeneID	9448
NCBI Accession #	NP_004825
NCBI GenBank Nucleotide #	NM_004834
UniProt Accession #	O95819
Molecular Weight	142kDa
NCBI Official Full Name	mitogen-activated protein kinase kinase kinase kinase 4 isoform 1
NCBI Official Synonym Full Names	mitogen-activated protein kinase kinase kinase kinase 4
NCBI Official Symbol	MAP4K4
NCBI Official Synonym Symbols	HGK; NIK; MEKKK4; FLH21957; HEL-S-31
NCBI Protein Information	mitogen-activated protein kinase kinase kinase kinase 4
UniProt Protein Name	Mitogen-activated protein kinase kinase kinase kinase 4
UniProt Gene Name	**MAP4K4**
UniProt Synonym Gene Names	HGK; KIAA0687; NIK; MEK kinase kinase 4; MEKKK 4
UniProt Entry Name	M4K4_HUMAN

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/map4k4-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73672