

Recombinant Human MAP3K5 Protein (M649-K946), GST/His tagged

Cat. No. MAP3K5-1093H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GST-TEV-ASK1(M649-K946)-6His Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M649-K946
Description	Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. Plays an important role in the cascades of cellular responses evoked by changes in the environment. Mediates signaling for determination of cell fate such as differentiation and survival. Plays a crucial role in the apoptosis signal transduction pathway through mitochondria-dependent caspase activation. MAP3K5/ASK1 is required for the innate immune response, which is essential for host defense against a wide range of pathogens. Mediates signal transduction of various stressors like oxidative stress as well as by receptor-mediated inflammatory signals, such as the tumor necrosis factor (TNF) or lipopolysaccharide (LPS). Once activated, acts as an upstream activator of the MKK/JNK signal transduction cascade and the p38 MAPK signal transduction cascade through the phosphorylation and activation of several MAP kinase kinases like MAP2K4/SEK1, MAP2K3/MKK3, MAP2K6/MKK6 and MAP2K7/MKK7. These MAP2Ks in turn activate p38 MAPKs and c-jun N-terminal kinases (JNKs). Both p38 MAPK and JNKs control

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the transcription factors activator protein-1 (AP-1).

Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	80%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 8.0), 500mM NaCl, 5% Glycerol.
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	MAP3K5 mitogen-activated protein kinase kinase kinase 5 [Homo sapiens (human)]
Official Symbol	MAP3K5
Synonyms	MAP3K5; mitogen-activated protein kinase kinase kinase 5; MEKK5; apoptosis signal regulating kinase 1; ASK1; MAPKKK5; ASK-1; MEKK 5; MEK kinase 5; MAP/ERK kinase kinase 5; MAPK/ERK kinase kinase 5; apoptosis signal-regulating kinase 1;
Gene ID	4217
mRNA Refseq	NM_005923

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Protein Refseq	NP_005914
MIM	602448
UniProt ID	Q99683

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