MAP3K1 Protein, Mouse (His)

Cat. No.:	HY-P700593
Synonyms:	MEKK; MEKK1; SRXY6; MEKK 1; MAPKKK1; MAP/ERK kinase kinase 1; MAPK/ERK kinase kinase 1; MEK kinase 1; mitogen-activated protein kinase kinase kinase 1, E3 ubiquitin protein ligase; mitogen-activated protein kinase kinase kinase 1
Species:	Mouse
Source:	E. coli
Accession:	P53349 (Q1216-W1493)
Gene ID:	26401
Molecular Weight:	34.8 kDa

PROPERTIES

AA Sequence	Q P Y R E D A E W L K G Q Q I G L G A F S S C Y Q A Q D V G T G T L M A V K Q V T Y V R N T S S E Q E E V V E A L R E E I R M M G H L N H P N I I R M L G A T C E K S N Y N L F I E W M A G G S V A H L L S K Y G A F K E S V V I N Y T E Q L L R G L S Y L H E N Q I I H R D V K G A N L L I D S T G Q R L R I A D F G A A A R L A S K G T G A G E F Q G Q L L G T I A F M A P E V L R G Q Q Y G R S C D V W S V G C A I I E M A C A K P P W N A E K H S N H L A L I F K I A S A T T A P S I P S H L S P G L R D V A V R C L E L Q P Q D R P P S R E L L K H P V F R T T W
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	MAP3K1 (Mitogen-Activated Protein Kinase Kinase Kinase 1) is a critical component of a protein kinase signal transduction cascade, playing a key role in cellular signaling. It functions by activating the ERK and JNK kinase pathways through the phosphorylation of MAP2K1 and MAP2K4. Additionally, MAP3K1 may phosphorylate the MAPK8/JNK1 kinase, further contributing to the regulation of cellular responses. Moreover, MAP3K1 has the ability to activate CHUK and IKBKB, central

protein kinases in the NF-kappa-B pathway, suggesting its involvement in the modulation of immune and inflammatory responses. The multifaceted actions of MAP3K1 highlight its importance in orchestrating complex signaling networks, making it a crucial regulator of various cellular processes. (

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