

Bioactive

MAP3K5 (Human) Recombinant Protein

Catalog # P6519 Size 5 ug

Applications

Result of activity analysis

Result of activity analysis

Specification	
Product Description	Human MAP3K5 (NP_005914.1, 654 a.a 971 a.a.) partial recombinant protein with GST-tag at N-t erminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.99
Activity	The activity was determined by ELISA. The enzyme was incubated with GST-fused substrate protein, and after stopping kinase reaction by EDTA, the reaction solution was transferred into glutathione-co ated plate. Phosphorylation was detected by anti-phospho antibody and HRP-labeled anti-rabbit IgG (or HRP-labeled anti-mouse IgG). Substrate: MAP2K7 [inactive mutant], ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

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Note

Result of activity analysis Result of activity analysis

Applications

• Functional Study

Gene Info — MAP3K5

Entrez GenelD	<u>4217</u>
Protein Accession#	<u>NP_005914.1</u>
Gene Name	MAP3K5
Gene Alias	ASK1, MAPKKK5, MEKK5
Gene Description	mitogen-activated protein kinase kinase 5
Omim ID	<u>602448</u>
Gene Ontology	Hyperlink
Gene Summary	Mitogen-activated protein kinase (MAPK) signaling cascades include MAPK or extracellular sign al-regulated kinase (ERK), MAPK kinase (MKK or MEK), and MAPK kinase kinase (MAPKKK or MEKK). MAPKK kinase/MEKK phosphorylates and activates its downstream protein kinase, MA PK kinase/MEK, which in turn activates MAPK. The kinases of these signaling cascades are high ly conserved, and homologs exist in yeast, Drosophila, and mammalian cells. MAPKKK5 contains 1,374 amino acids with all 11 kinase subdomains. Northern blot analysis shows that MAPKKK5 tr anscript is abundantly expressed in human heart and pancreas. The MAPKKK5 protein phosphor ylates and activates MKK4 (aliases SERK1, MAPKK4) in vitro, and activates c-Jun N-terminal kin ase (JNK)/stress-activated protein kinase (SAPK) during transient expression in COS and 293 c ells; MAPKKK5 does not activate MAPK/ERK. [provided by RefSeq
Other Designations	MAP/ERK kinase kinase 5 MAPK/ERK kinase kinase 5 OTTHUMP00000017275 apoptosis sign al regulating kinase

Pathway

- Amyotrophic lateral sclerosis (ALS)
- MAPK signaling pathway

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• Neurotrophin signaling pathway

Disease

- Asthma
- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- <u>Hypersensitivity</u>
- Inflammation
- Insulin Resistance
- Lymphoma
- Tobacco Use Disorder