Map2k4

Recombinant Mouse MAP kinase kinase 4 / MAP2K4 (His & GST Tag)

Catalog No.	CRM670A-HisGST CRM670B-HisGST	**Quantity:**	20 µg 50 µg

Alternate Names: Dual specificity mitogen-activated protein kinase kinase 4, MAP kinase kinase 4, MAPKK 4, C-JUN N-terminal kinase kinase 1, JNK kinase 1, JNKK 1, JNK-activating kinase 1, MAPK/ERK kinase 4, MEK 4, SAPK/ERK kinase 1, SEK1

Description: Dual specificity mitogen-activated protein kinase kinase 4(MAP2K4) is a protein which belongs to the kinase superfamily, STE Ser/Thr protein kinase family and MAP kinase kinase subfamily. MAP2K4 is a direct activator of MAP kinases in response to various environmental stresses or mitogenic stimuli. MAP2K4 has been shown to activate MAPK8 / JNK1, MAPK9 / JNK2, and MAPK14 / p38, but not MAPK1 / ERK2 or MAPK3 / ERK1. MAP2K4 is phosphorylated and thus activated by MAP3K1 / MEKK. The stress-activated protein kinase (SAPK) pathways represent phosphorylation cascades that convey pro-apoptotic signals. The mitogen-activated protein kinase kinase (MAPKK) homolog MAP2K4 (MKK4, SEK, JNKK1) is a centrally-placed mediator of the SAPK pathways.

UniProt ID: P47809

Protein Construction: A DNA sequence encoding the mouse MAP2K4 (Ala 2-Asp 397) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Baculovirus-Insect Cells

Formulation: Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.5
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The secreted rmMAP2K4/GST consists of 633 aa with a predicted MW of 72 kDa and migrates at ~65 kDa in SDS-PAGE under reducing conditions.

Purity: > 90 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method

Biological Activity: No kinase activity

Predicted N-terminal: Met

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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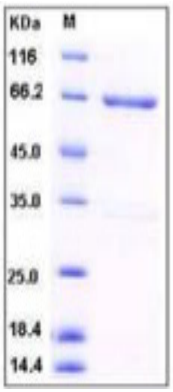
SDS-PAGE



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