# Recombinant Human MKK6 Protein (207 Ser/Asp, 211 Thr/Asp, His &GST Tag)

**Catalog Number: PKSH030414**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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|---|---|
| **Species** | Human |
| **Source** | Baculovirus-Insect Cells-derived Human MKK6 protein Met 1-Asp 334; Ser 207/Asp; Thr 211/Asp, with an N-terminal His & GST |
| **Calculated MW** | 65.3 kDa |
| **Observed MW** | 60 kDa |
| **Accession** | P52564-1 |
| **Bio-activity** | The specific activity was determined to be 1250 nmol/min/mg using inactive MAPK14 as substrate. |

## Properties

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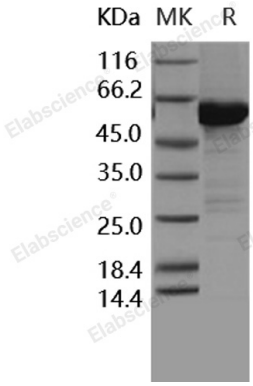
|---|---|
| **Purity** | > 88 % as determined by reducing SDS-PAGE. |
| **Concentration** | Subject to label value. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| **Shipping** | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C. |
| **Formulation** | Supplied as sterile solution of 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol |

## Data




> 88 % as determined by reducing SDS-PAGE.

## Background

Dual specificity mitogen-activated protein kinase kinase 6, also known as MAP kinase kinase 6, MAPKK 6, MAPK / ERK kinase 6, SAPKK3, MAP2K6, and MKK6, is a protein that belongs to the protein kinase superfamily, STE Ser / Thr protein kinase family and MAP kinase kinase subfamily. MAP2K6 / MKK6 contains one protein kinase domain. Mitoge n-activated protein kinases are members of a conserved cascade of kinases involved in many signal transduction pathways. They stimulate phosphorylation of transcription factors in response to extracellular signals such as growth factors, cytokines, ultraviolet light, and stress-inducing agents. MAP2K6 / MKK6 exists in a variety of alternatively spliced isoforms with distinct patterns of tissue expression. Isoform 2 of MAP2K6 / MKK6 is only expressed in skeletal muscle. Isoform 1 of MAP2K6 / MKK6 is expressed in skeletal muscle, heart, and to a lesser extent in liver or pancreas.