



## Recombinant Protein Technical Manual

**Recombinant Human MKK6 Protein (207 Ser/Asp, 211 Thr/Asp, His & GST Tag)(Active)**  
RPES1910

### Product Data:

**Product SKU:** RPES1910

**Size:** 20µg

**Species:** Human

**Expression host:** Baculovirus-Insect Cells

**Uniprot:** P52564

### Protein Information:

**Molecular Mass:** 65.3 kDa

**AP Molecular Mass:** 60 kDa

**Tag:** N-His & GST

**Bio-activity:** The specific activity was determined to be 1250 nmol/min/mg using inactive MAPK14 as substrate.

**Purity:** > 88 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg 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 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** MAPKK6;MEK6;MKK6;PRKMK6;SAPKK-3;SAPKK3;MAP2K6

## Immunogen Information:

**Sequence:** Met 1-Asp 334, Ser 207/Asp, Thr 211/Asp

## 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 which belongs to the protein kinase superfamily, STE Ser / Thr protein kinase family and MAP kinase kinase subfamily. MAP2K6 / MKK6 contains one protein kinase domain. Mitogen-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 in lesser extent in liver or pancreas.