Data Sheet (Cat.No.TMPY-04749)

TargetMol

MKK6 Protein, Human, Recombinant (S207D, T211D)

General Information

Synonyms: MAPKK6;PRKMK6;MKK6;MEK6;mitogen-activated protein kinase kinase 6;SAPKK-3;SAPKK3

Protein Construction: A DNA sequence encoding the human MAP2K6 (P52564-1) (Met 1-Asp 334, 207Asp, 211Asp) was expressed and purified with two additional amino acids (Gly & Pro) at the N-terminus. Predicted N terminal: Gly

Species: Human

Expression Host: Baculovirus Insect Cells

Accession: P52564-1

Molecular Weight: 37.7 kDa (predicted); 38 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity: Kinase activity untested

Purity: > 85 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Supplied as sterile 20 mM Tris, 500 mM NaCl, 10% glycerol, pH 8.0.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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. 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 to a lesser

extent in liver or pancreas.

Reference

Raingeaud J.,et al.,(1996), MKK3- and MKK6-regulated gene expression is mediated by the p38 mitogen-activated protein kinase signal transduction pathway. Mol. Cell. Biol. 16:1247-1255.
Stein B.,et al., (1996), Cloning and characterization of MEK6, a novel member of the mitogen-activated protein kinase kinase cascade.J. Biol. Chem. 271:11427-11433.
HAn J.,et al.,(1996), Characterization of the structure and function of a novel MAP kinase kinase (MKK6).J. Biol. Chem. 271:2886-2891.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481