

Recombinant Full Length Human MAP2K2 Protein, C-Flag-tagged

Cat. No. MAP2K2-1645HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MAP2K2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, cognitive disability, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	44.2 kDa
AA Sequence	MLARRKPVLPALTINPTIAEGPSPTSEGASEANLVDLQKKLEELDEQKKRLEAFL TQKAKVGELKDD DFERISELGAGNGGVVTKVQHRPSGLIMARKLIHLEIKPAIRNQIIR

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ELQVLHECNSPYIVGFYGAIFYSD GEISICMEHMDGGSLDQVLKEAKRIPEEILGKVSI
 AVLRLAYLREKHQIMHRDVKPSNILVNSRGEIKL CDFGVSGQLIDSMANSFVGTRS
 YMAPERLQGTHYSVQSDIWSMGLSLVELAVGRYPIPPPDAAKELEAIFG RPYVDGEE
 GEPHSISPRPRPPGRPVS GHGMDSRPAMAIFELLDYIVNEPPPKLPNGVFTPDFQEF
 VNKCL
 IKNPAERADLKMLTNHTFIKRSEVEEVDFAWGLCKTLRLNQPGTPTRTAVTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Acute myeloid leukemia, B cell receptor signaling pathway, Bladder cancer, Chronic myeloid leukemia, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Melanoma, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pathways in cancer, Prion diseases, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, T cell receptor signaling pathway, Thyroid cancer, Toll-like receptor signaling pathway,

Vascular smooth muscle contraction, VEGF signaling pathway

Full Length

Full L.

GENE INFORMATION**Gene Name**

MAP2K2 mitogen-activated protein kinase kinase 2 [Homo sapiens (human)]

Official Symbol

MAP2K2

Synonyms

CFC4; MEK2; MKK2; MAPKK2; PRKMK2

Gene ID

5605

mRNA Refseq

NM_030662.4

Protein Refseq

NP_109587.1

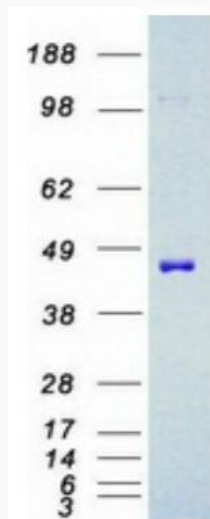
MIM

601263

UniProt ID

P36507

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Coomassie blue staining of purified MAP2K2 protein.

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