



Recombinant Rat Dual specificity mitogen-activated protein kinase kinase 5 (Map2k5)

Product Code	CSB-EP730812RA-B
Abbreviation	Map2k5
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q62862
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MLWLALGPFR AMENQVLVIR IKIPNSGAVD WTVHSGPQLL FRDVLDVIGQ VLPEATTTAF EYEDEDGDRI TVRSDEEMKA MLSYYYSTVM EQQVNGQLIE PLQIFPRACK PPGERNIHGL KVNTRAGPSQ HTSPVVSDSL PSNSLKKSSA ELRKILANGQ MNEQDIRYRD TLGHGNGGTV YKAYHVPSGK ILAVKVILLD ITLLELQKQIM SELEILYKCD SSIYIGFYGA FFVENRISIC TEFMDGGSLD VYRKIPEHVL GRIAVAVVKG LTYLWLSKIL HRDVKPSNML VNTSGQVKLC DFGVSTQLVN SIAKTYVGTN AYMAPERISG EQYGIHSDVW SLGISFMELA LGRFPYPQIQ KNQGSMLPLQ LLQCIVDEDS PVLPLGEFSE PFVHFITQCM RKQPKERPAP EELMGHPFIV QFNDGNATVV SMWVCRALEE RRSQQGPP
Source	E.coli
Target Names	Map2k5
Protein Names	Recommended name: Dual specificity mitogen-activated protein kinase kinase 5 Short name= MAP kinase kinase 5 Short name= MAPKK 5 EC= 2.7.12.2 Alternative name(s): MAPK/ERK kinase 5 Short name= MEK 5
Expression Region	1-448
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This protein is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. Four alternatively spliced transcript variants of this gene encoding distinct isoforms have been described.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.