



Recombinant Mouse Dual specificity protein phosphatase 10 (Dusp10)

Product Code	CSB-MP866848MO
Abbreviation	Dusp10
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.	Q9ESS0
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	MPPSPLDDRV VVALSRPVRP QDLNLCLDSS YLGASPGSG SHAPVLATAV VTLKAANLTY MPSSSGSARS LNCGCSSTSC CTVATYDKDH QAQTQAI AAG TATTAIGTST TCPANQMVNN NENTGSVLSP SGGVGVSPVSG TPKQLASIKI IYPNDLAKKM TKCSKSHLPS QGPVIIDCRP FMEYNKSHIQ GAVHINCADK ISRRRLQQGK ITVLDLISCR EGKDSFKRIF SKEIIVYDEN TNEPSRVTPS QPLHIVLESL KREGKEPLVL KGGLSSFKQN HGNLCDNSLQ LQECREVGGG ASAASSMLPQ SVPTTPDIEN AELTPILPFL FLGNEQDAQD LDTMQRLNIG YVINVTTHLP LYHYEKGLFN YKRLPATDSN KQNLQRQYFEE AFEFIEEAHQ CGKGLLIHCQ AGVSRSATIV IAYLMKHTRM TMTDAYKFKV GKRPIISPNL NFMGQLLEFE EDLNGVTPR ILTPKLMGME TVV
Source	Mammalian cell
Target Names	Dusp10
Protein Names	Recommended name: Dual specificity protein phosphatase 10 EC= 3.1.3.16 EC= 3.1.3.48 Alternative name(s): Mitogen-activated protein kinase phosphatase 5 Short name= MAP kinase phosphatase 5 Short name= MKP-5
Expression Region	1-483
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	Dual specificity protein phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the MAPK superfamily (MAPK/ERK, SAPK/JNK, p38), which is associated with cellular proliferation and differentiation. Different members of this family of dual specificity phosphatases show distinct substrate specificities for MAPKs, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by



extracellular stimuli. This gene product binds to and inactivates p38 and SAPK/JNK, but not MAPK/ERK. Its subcellular localization is unique; it is evenly distributed in both the cytoplasm and the nucleus. This gene is widely expressed in various tissues and organs, and its expression is elevated by stress stimuli. Three transcript variants encoding two different isoforms have been found for this gene.

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

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