



Recombinant Human Dual specificity protein phosphatase 10 (DUSP10)

Product Code	CSB-MP897321HU
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.	Q9Y6W6
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MPPSPLDDR VVALSRPVRP QDLNLC LDSS YLGSANPGSN SHPPVIATTV VSLKAANLTY MPSSSGSARS LNCGCSSASC CTVATYDKDN QAQTQAI AAG TTTTAIGTST TCPANQMVNN NENTGSLSPS SGVGSVSGT PKQLASIKII YPNDLAKKMT KCSKSHLPSQ GPVIIDCRPF MEYNKSHIQG AVHINCADKI SRRRLQQGKI TVLDLISCRE GKDSFKRIFS KEIIVYDENT NEPSRVMP SQ PLHIVLES LK REGKEPLVLK GGLSSFQNH ENLCDNSLQL QECREVG GGA SAASSLLPQP IPTTPDIENA ELTPILPFLF LGNEQDAQDL DTMQRLNIGY VINVTTHLPL YHYEKGLFNY KRLPATDSNK QNLRQYFEEA FEFIEEAHQC GKGLLIHCQA GVSRSATIVI AYLMKHTRMT MTDAYKFVKG KRPIISPNLN FMGQLLEFEE DLNNGVTPRI LTPKLMGVET VV
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	1-482
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

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.