



Recombinant Mouse Dual specificity protein phosphatase 8 (Dusp8)

Product Code	CSB-EP007261MO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O09112
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	MAGDRLPRKV MDAKKLASLL RGGPGGPLVI DSRSFVEYNS CHVLSSVNIC CSKLVKRRRLQ QGKVITIAELI QPATRSQVDA TEPQDVVVYD QSTRDASVLA ADSFLLSILLS KLDGCFDSVA ILTGGFATFS SCFPGLCCEGK PATLPSMSLS QPCLPVPVSVG LTRILPHLYL GSQKDVLNKD LMTQNGISYV LNASNSCPKP DFICESRFMR IPINDNYCEK LLPWLDKSIE FIDKAKLSSC QVIVHCLAGI SRSATIAIAY IMKTMGMSSD DAYRFVKDRR PSISPNFNFL GQLLEYERSL KLLAALQTDG PHLGTPEPLM GPAAGIPLPR LPPSTSESAA TGSEAATAAR EGSPSAGGDA PIPSTAPATS ALQQGLRGLH LSSDRLQDTN RLKRSFSLDI KSAYAPSRRP DFPGPPDPGE APKLCKLDSP SGGTLGLPSP SPDSPDSVPE CRPRPRRRRP PASSPARSPA HGLGLNFGDT ARQTPRHGLS ALSAPGLPGP GQPAGPGGWV PPLDSPGTPS PDGPWCFSPE GAQGPGAVFS AFGRVSAGAP GPGNSSSSSSG GGGGGGGGGG GGGGGGSSSS NSSSSSSSSSS SSSSSSSSSSS DLRRRDVRTG WPEEPAADAQ FKRRSCQMEF EEGMVEGRAR GEELAALGKQ TSFSGSVEVI EVS
Source	E.coli
Target Names	Dusp8
Protein Names	Recommended name: Dual specificity protein phosphatase 8 EC= 3.1.3.16 EC= 3.1.3.48 Alternative name(s): Neuronal tyrosine threonine phosphatase 1
Expression Region	1-663
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 member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which is associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates



SAPK/JNK and p38, is expressed predominantly in the adult brain, heart, and skeletal muscle, is localized in the cytoplasm, and is induced by nerve growth factor and insulin. An intronless pseudogene for DUSP8 is present on chromosome 10q11.2.

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.