



# Recombinant Mouse Dual specificity protein phosphatase 4 (Dusp4)

<b>Product Code</b>	CSB-EP807324MO
<b>Abbreviation</b>	Dusp4
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q8BFV3
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MVTMEELREM DCSVLKRLMN RDENGGGSA GGNGSGSHGA LGLLSGGKCL LLDCRPFLAH SAGYIRGSVN VRCNTIVRRR AKGSVSLEQI LPAEEVRRAR LRSGLYSAVI VYDERSPRAE SLREDSTVSL VVQALRRNAE RTDICLLKGG YERFSSEYPE FCSKTKALAA IPPPVPPSTN ESLDLGCSSC GTPLHDQGGP VEILPFLYLG SAYHAARRDM LDALGITALL NVSSDCPNHF EGHYQYKCIP VEDNHKADIS SWFMEAIEYI DAVKDCRGRV LVHCQAGISR SATICLAYLM MKKRVRLEEA FEFVKQRRSI ISPNFSFMGQ LLQFESQVLT TSCAAEAASP SGPLRERGKA TPTPTSQFVF SFPVSVGVA APSNLPYLHS PITTSPSC
<b>Source</b>	E.coli
<b>Target Names</b>	Dusp4
<b>Protein Names</b>	Recommended name: Dual specificity protein phosphatase 4 EC= 3.1.3.16 EC= 3.1.3.48
<b>Expression Region</b>	1-398
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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 are 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 ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported.

---

**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.