



# Recombinant Rat Dual specificity protein phosphatase 5 (Dusp5)

<b>Product Code</b>	CSB-EP007257RA-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O54838
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MKVTSLDGRR LRKMLRKEAE ARCVVLD CRP YLAFAASSVR GSLNVNLNSV VLR RARGGAV SARYVLADEA ARARLLQEGG GGVA AVVLD QGSRHWQKLR EESAARVLT SLLACLSAGP RVYFLKGGYE TFYSQYPECC VDAKPISQEK LEGERGLLSQ CGKPILSVAY RPAYDQGGPV EILPFLYLG S AYHASKCEFL ANLHITALLN VSRRTSEACT THLHYKWIPV EDSHTADISS HFQE AIDFID CVREEGGKVL VHCEAGVSRS PTICMAYLMK TKQFRLKEAF EYIKQRRSVV SPNFGFMGQL LQYESEILPS TTPPQPPSCQ GEAASSTFIG HLQTLSPDMQ GAYCTFPTSV LAPVPTHATV AELHRSPVAT ATSC
<b>Source</b>	E.coli
<b>Target Names</b>	Dusp5
<b>Protein Names</b>	Recommended name: Dual specificity protein phosphatase 5 EC= 3.1.3.16 EC= 3.1.3.48 Alternative name(s): MAP-kinase phosphatase CPG21
<b>Expression Region</b>	1-384
<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, is expressed in a variety of tissues with the highest levels in pancreas and brain, and is localized in the nucleus.
<b>Reconstitution</b>	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.