



Recombinant Rat Dual specificity protein phosphatase 5 (Dusp5)

Product Code	CSB-MP007257RA
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O54838
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	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 TPTPQPPSCQ GEAASSTFIG HLQTLSPDMQ GAYCTFPTSV LAPVPTHATV AELHRSPVAT ATSC
Source	Mammalian cell
Target Names	Dusp5
Protein Names	Recommended name: Dual specificity protein phosphatase 5 EC= 3.1.3.16 EC= 3.1.3.48 Alternative name(s): MAP-kinase phosphatase CPG21
Expression Region	1-384
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 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.
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.