Recombinant Mouse Dual specificity protein phosphatase 1 (Dusp1)

Product Code	CSB-EP007238MO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P28563
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	≥85% (SDS-PAGE)
Sequence	MVMEVGILDA GGLRALLREG AAQCLLLDCR SFFAFNAGHI AGSVNVRFST IVRRRAKGAM GLEHIVPNAE LRGRLLAGAY HAVVLLDERS ASLDGAKRDG TLALAAGALC REARSTQVFF LQGGYEAFSA SCPELCSKQS TPTGLSLPLS TSVPDSAESG CSSCSTPLYD QGGPVEILSF LYLGSAYHAS RKDMLDALGI TALINVSANC PNHFEGHYQY KSIPVEDNHK ADISSWFNEA IDFIDSIKDA GGRVFVHCQA GISRSATICL AYLMRTNRVK LDEAFEFVKQ RRSIISPNFS FMGQLLQFES QVLAPHCSAE AGSPAMAVLD RGTSTTTVFN FPVSIPVHPT NSALNYLKSP ITTSPSC
Source	E.coli
Target Names	Dusp1
Protein Names	Recommended name: Dual specificity protein phosphatase 1 EC= 3.1.3.16 EC= 3.1.3.48 Alternative name(s): Mitogen-activated protein kinase phosphatase 1 Short name= MAP kinase phosphatase 1 Short name= MKP-1 Protein-t
Expression Region	1-367
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	The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence similarity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus. The bacterially expressed and purified DUSP1 protein has intrinsic phosphatase activity, and specifically inactivates mitogen-activated protein (MAP) kinase in vitro by the concomitant dephosphorylation of both its phosphothreonine and phosphotyrosine residues. Furthermore, it suppresses the activation of MAP kinase by oncogenic ras in extracts of Xenopus oocytes. Thus, DUSP1 may play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation.
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.