Recombinant Human Dual specificity protein phosphatase 1 (DUSP1)

Product Code	CSB-BP007238HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P28562
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MVMEVGTLDA GGLRALLGER AAQCLLLDCR SFFAFNAGHI AGSVNVRFST IVRRRAKGAM GLEHIVPNAE LRGRLLAGAY HAVVLLDERS AALDGAKRDG TLALAAGALC REARAAQVFF LKGGYEAFSA SCPELCSKQS TPMGLSLPLS TSVPDSAESG CSSCSTPLYD QGGPVEILPF LYLGSAYHAS RKDMLDALGI TALINVSANC PNHFEGHYQY KSIPVEDNHK ADISSWFNEA IDFIDSIKNA GGRVFVHCQA GISRSATICL AYLMRTNRVK LDEAFEFVKQ RRSIISPNFS FMGQLLQFES QVLAPHCSAE AGSPAMAVLD RGTSTTTVFN FPVSIPVHST NSALSYLQSP ITTSPSC
Source	Baculovirus
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): Dual specificity protein phosphatase hVH1 Mitogen-activated protein kinase phosphatase 1 Short name= MAP kinase phosph
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.