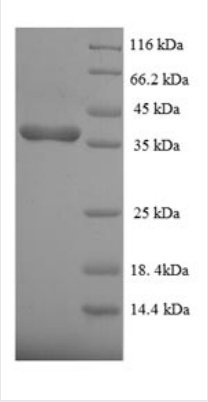
Dual Specificity Protein Phosphatase 26 (DUSP26) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Dual specificity protein phosphatase 26 (DUSP26), Recombinant Protein
Full Product Name	Recombinant Human Dual specificity protein phosphatase 26
Product Gene Name	DUSP26 recombinant protein
Product Synonym Names	Dual specificity phosphatase SKRP3; Low-molecular-mass dual-specificity phosphatase 4; DSP-4; LDP-4; Mitogen-activated protein kinase phosphatase 8; MAP kinase phosphatase 8; MKP-8; Novel amplified gene in thyroid anaplastic cancer
Sequence	MCPGNWLWAS MTFMARFSRS SSRSPVRTRG TLEEMPTVQH PFLNVFELER LLYTGKTACN HADEVWPGLY LGDQDMANNR RELRRLGITH VLNASHSRWR GTPEAYEGLG IRYLGVEAHD SPAFDMSIHF QTAADFIHRA LSQPGGKILV HCAVGVSRSA TLVLAYLMLY HHLTLVEAIK KVKDHRGIIP NRGFLRQLLA LDRRLRQGLE A
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.
Molecular Weight	39.9 kDa
Sequence Positions	1-211aa; Full Length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9BV47
Product Categories/Family for DUSP26 recombinant protein	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DUSP26 recombinant protein	Inactivates MAPK1 and MAPK3 which leads to dephosphorylation of heat shock factor protein 4 and a reduction in its DNA-binding activity. Inhibits MAP kinase p38 by dephosphorylating it and inhibits p38-mediated apoptosis in anaplastic thyroid cancer cells. Can also induce activation of MAP kinase p38 and c-Jun N-terminal kinase (JNK).

Product References and Citations for DUSP26 recombinant protein	MKP-8, a novel MAPK phosphatase that inhibits p38 kinase.Vasudevan S.A., Skoko J., Wang K., Burlingame S.M., Patel P.N., Lazo J.S., Nuchtern J.G., Yang J.Biochem. Biophys. Res. Commun. 330:511-518(2005) A novel amplification target, DUSP26, promotes anaplastic thyroid cancer cell growth by inhibiting p38 MAPK activity.Yu W., Imoto I., Inoue J., Onda M., Emi M., Inazawa J.Oncogene 26:1178-1187(2007) Characterization of a novel low-molecular-mass dual specificity phosphatase-4 (LDP-4) expressed in brain.Takagaki K., Shima H., Tanuma N., Nomura M., Satoh T., Watanabe M., Kikuchi K.Mol. Cell. Biochem. 296:177-184(2007) Identification of a novel dual specificity phosphatase, SKRP3.Zama T., Aoki R., Murata M., Ikeda Y.Complete sequencing and characterization of 21,243 full-length human cDNAs.Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S., Yamamoto J., Saito K., Kawai Y., Isono Y., Nakamura Y., Nagahari K., Murakami K., Yasuda T., Iwayanagi T., Wagatsuma M., Shiratori A., Sudo H., Hosoiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M., Takahashi M., Kanda K., Yokoi T., Furuya T., Kikkawa E., Omura Y., Abe K., Kamihara K., Katsuta N., Sato K., Tanikawa M., Yamazaki M., Ninomiya K., Ishibashi T., Yamashita H., Murakawa K., Fujimori K., Tanai H., Kimata M., Watanabe M., Hiraoka S., Chiba Y., Ishida S., Ono Y., Takiguchi S., Watanabe S., Yosida M., Hotuta T., Kusano J., Kanehori K., Takahashi-Fujii A., Hara H., Tanase T.-O., Nomura Y., Togiya S., Komai F., Hara R., Takeuchi K., Arita M., Imose N., Musashino K., Yuuki H., Oshima A., Sasaki N., Aotsuka S., Yoshikawa Y., Matsunawa H., Ichihara T., Shiohata N., Sano S., Moriya S., Momiyama H., Satoh N., Takami S., Terashima Y., Suzuki O., Nakagawa S., Senoh A., Mizoguchi H., Goto Y., Shimizu F., Wakebe H., Hishigaki H., Watanabe T., Sugiyama A., Takemoto M., Kawakami B., Yamazaki M., Watanabe K., Kumagai A., Itakura S., Fukuzumi Y., Fujimori Y., Komiyama M., Tashiro H., Tanigami A., Fujiwara T., Ono T., Yamada K., Fujii Y., Ozaki K., Hirao M., Ohmori Y., Kawabata A., Hikiji T., Kobatake N., Inagaki H., Ikema Y., Okamoto S., Okitani R., Kawakami T., Noguchi S., Itoh T., Shigeta K., Senba T., Matsumura K., Nakajima Y., Mizuno T., Morinaga M., Sasaki M., Togashi T., Oyama M., Hata H., Watanabe M., Komatsu T., Mizushima-Sugano J., Satoh T., Shirai Y., Takahashi Y., Nakagawa K., Okumura K., Nagase T., Nomura N., Kikuchi H., Masuho Y., Yamashita R., Nakai K., Yada T., Nakamura Y., Ohara O., Isogai T., Sugano S.Nat. Genet. 36:40-45(2004)
Other Notes	Small volumes of DUSP26 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for DUSP26 purchase	MBS1350791 is a recombinant protein targeting DUSP26. Also known as Recombinant Human Dual specificity protein phosphatase 26. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of DUSP26 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP26. It may not necessarily be applicable to this product.

NCBI GI #	760998197
NCBI GeneID	78986
NCBI Accession #	NP_001292044.1
UniProt Primary Accession #	Q9BV47
UniProt Secondary Accession #	Q9BTW0; D3DSV8
UniProt Related Accession #	Q9BV47

GenBank Nucleotide #	NM_001305115.1
NCBI Official Full Name	dual specificity protein phosphatase 26
NCBI Official Synonym Full Names	dual specificity phosphatase 26 (putative)
NCBI Official Symbol	DUSP26
NCBI Official Synonym Symbols	MKP8; NEAP; DSP-4; LDP-4; MKP-8; NATA1; SKRP3; DUSP24
UniProt Protein Name	Dual specificity protein phosphatase 26
UniProt Synonym Protein Names	Dual specificity phosphatase SKRP3; Low-molecular-mass dual-specificity phosphatase 4; DSP-4; LDP-4; Mitogen-activated protein kinase phosphatase 8; MAP kinase phosphatase 8; MKP-8; Novel amplified gene in thyroid anaplastic cancer
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DUSP26
UniProt Synonym Gene Names	DUSP24; LDP4; MKP8; NATA1; SKRP3; DSP-4; LDP-4; MAP kinase phosphatase 8; MKP-8
UniProt Entry Name	DUS26_HUMAN
NCBI Protein Information	dual specificity protein phosphatase 26
NCBI Summary for DUSP26	This gene encodes a member of the tyrosine phosphatase family of proteins and exhibits dual specificity by dephosphorylating tyrosine as well as serine and threonine residues. This gene has been described as both a tumor suppressor and an oncogene depending on the cellular context. This protein may regulate neuronal proliferation and has been implicated in the progression of glioblastoma through its ability to dephosphorylate the p53 tumor suppressor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2015]
UniProt Comments for DUSP26	DUSP26: Inactivates MAPK1 and MAPK3 which leads to dephosphorylation of heat shock factor protein 4 and a reduction in its DNA-binding activity. Inhibits MAP kinase p38 by dephosphorylating it and inhibits p38-mediated apoptosis in anaplastic thyroid cancer cells. Can also induce activation of MAP kinase p38 and c-Jun N-terminal kinase (JNK). Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protein phosphatase, dual-specificity; EC 3.1.3.48; Motility/polarity/chemotaxis; EC 3.1.3.16 Chromosomal Location of Human Ortholog: 8p12 Cellular Component: cytoplasm; Golgi apparatus; mitochondrion; nucleus Molecular Function: p53 binding; phosphoprotein phosphatase activity; phosphoserine phosphatase activity; protein binding; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity Biological Process: negative regulation of transcription from RNA polymerase II promoter; positive regulation of cell adhesion; protein amino acid dephosphorylation
Research Articles on DUSP26	**1.** results suggest that AK2 is an associated activator of DUSP26 and suppresses cell proliferation by FADD dephosphorylation, postulating AK2 as a negative regulator of tumour growth.
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