

Active Recombinant Human DUSP22, GST-tagged

Cat. No. DUSP22-1514H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length human DUSP22 was expressed in E.coli cells using a N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	Dual specificity phosphatases (DUSP) family, which can dephosphorylate both phosphoserine/threonine and phosphotyrosine residues, comprise of two subgroups: "typical" DUSP (include 11 MKPs that dephosphorylate the mitogen-activated protein kinases Erk, Jnk, and p38 at their dually phosphorylated TXY activation loop motif) and "atypical" DUSP (include 8 enzymes that lack specific MAP kinase-targeting motifs and tend to be much smaller proteins, which are less than 250 amino acid residues).DUSP22, also called JKAP, JSP1 and MKPX plays a role in various inflammatory and proliferative disorders associated with dysfunctional Jnk signaling.
Form	Recombinant protein stored in 20mM MOPS, pH 7.5, 50mM NaCl, 10mM glutathione, 0.25mM DTT, 0.1mM PMSF, 30% glycerol.
Bio-activity	600 nmol/min/mg
Molecular Mass	~43 kDa

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Purity	>90%
Applications	Phosphatase Assay, Western Blot
Storage	Store at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 µg/µl

GENE INFORMATION

Gene Name	DUSP22 dual specificity phosphatase 22 [Homo sapiens]
Official Symbol	DUSP22
Synonyms	DUSP22; dual specificity phosphatase 22; dual specificity protein phosphatase 22; JKAP; JSP1; MKPX; VHX; JSP-1; MKP-x; LMW-DSP2; MAP kinase phosphatase x; JNK-stimulating phosphatase 1; JNK-stimulatory phosphatase-1; mitogen-activated protein kinase phosphatase x; low molecular weight dual specificity phosphatase 2; homolog of mouse dual specificity phosphatase LMW-DSP2; LMWDSP2; FLJ35864;
Gene ID	56940
mRNA Refseq	NM_020185
Protein Refseq	NP_064570
UniProt ID	Q9NRW4
Chromosome Location	6pter-q22.33

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Pathway	MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem;
Function	hydrolase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity;

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