

# Recombinant Human Dual Specificity Phosphatase 22, GST-tagged, Active

Cat. No. DUSP22-459H    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. MW = 43 kDa.

### Species

Human

### Source

E.coli

### 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.

### Sequence

Full length.

### Applications

Phosphatase Assay, Western Blot.

### Storage And Stability

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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**Full Length**

Full L.

## GENE INFORMATION

**Gene Name**

DUSP22 dual specificity phosphatase 22 [ Homo sapiens ]

**Synonyms**

dual specificity phosphatase 22; VHX; JKAP; JSP1; MKPX; LMWDSP2; FLJ35864; DUSP22; JNK-stimulating phosphatase 1; mitogen-activated protein kinase phosphatase x; homolog of mouse dual specificity phosphatase LMW-DSP2; EC 3.1.3.48, EC 3.1.3.16; JSP-1; LMW-DSP2; OTTHUMP00000015938; JNK-stimulatory phosphatase-1; Mitogen-activated protein kinase phosphatase x

**Gene ID**

56940

**mRNA Refseq**

NM\_020185

**Protein Refseq**

NP\_064570

**UniProt ID**

Q9NRW4

**Chromosome  
Location**

6p25.3

**Function**

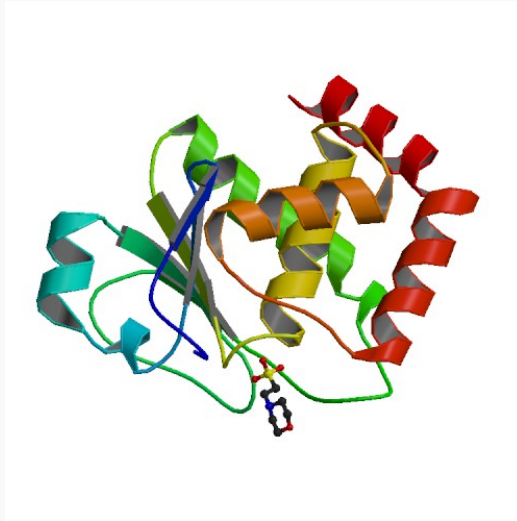
hydrolase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity

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