

Recombinant Human DUSP10, GST-tagged

Cat. No. DUSP10-12203H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DUSP10 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-200a.a.
Description	Dual specificity protein phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the MAPK superfamily (MAPK/ERK, SAPK/JNK, p38), which is associated with cellular proliferation and differentiation. Different members of this family of dual specificity phosphatases show distinct substrate specificities for MAPKs, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product binds to and inactivates p38 and SAPK/JNK, but not MAPK/ERK. Its subcellular localization is unique; it is evenly distributed in both the cytoplasm and the nucleus. This gene is widely expressed in various tissues and organs, and its expression is elevated by stress stimuli. Three transcript variants encoding two different isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION
Gene Name

DUSP10 dual specificity phosphatase 10 [Homo sapiens]

Official Symbol

DUSP10

Synonyms

DUSP10; dual specificity phosphatase 10; dual specificity protein phosphatase 10; MKP 5; MKP5; map kinase phosphatase 5; dual specificity phosphatase MKP-5; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 5; MKP-5;

Gene ID

11221

mRNA Refseq

NM_007207

Protein Refseq

NP_009138

MIM

608867

UniProt ID

Q9Y6W6

**Chromosome
Location**

1q41

Pathway

ATF-2 transcription factor network, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway, conserved biosystem; Regulation of p38-alpha and p38-beta, organism-specific biosystem;

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Function

MAP kinase tyrosine/serine/threonine phosphatase activity; hydrolase activity; phosphoprotein phosphatase activity; protein tyrosine phosphatase activity;

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