

Recombinant Human DUSP12, His-tagged

Cat. No. DUSP12-12205H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DUSP12 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-340a.a.
Description	The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which is associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product is the human ortholog of the <i>Saccharomyces cerevisiae</i> YVH1 protein tyrosine phosphatase. It is localized predominantly in the nucleus, and is novel in that it contains, and is regulated by a zinc finger domain.
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 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION
Gene Name

DUSP12 dual specificity phosphatase 12 [Homo sapiens]

Official Symbol

DUSP12

Synonyms

DUSP12; dual specificity phosphatase 12; dual specificity protein phosphatase 12; DUSP1; serine/threonine specific protein phosphatase; YVH1; YVH1 protein tyrosine phosphatase (S. cerevisiae) ortholog; YVH1 protein-tyrosine phosphatase ortholog; dual specificity tyrosine phosphatase YVH1;

Gene ID

11266

mRNA Refseq

NM_007240

Protein Refseq

NP_009171

MIM

604835

UniProt ID

Q9UNI6

**Chromosome
Location**

1q21-q22

Function

hydrolase activity; kinase binding; metal ion binding; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity; zinc ion binding;

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