

Recombinant Human DUSP12 Protein, Myc/DDK-tagged

Cat. No. DUSP12-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human dual specificity phosphatase 12 (DUSP12) with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
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.
Molecular Mass	37.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage	Store at -80 centigrade.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

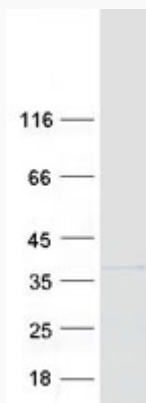
GENE INFORMATION

Gene Name	DUSP12 dual specificity phosphatase 12 [Homo sapiens (human)]
Official Symbol	DUSP12
Synonyms	DUSP12; dual specificity phosphatase 12; YVH1; DUSP1; dual specificity protein phosphatase 12; YVH1 protein-tyrosine phosphatase ortholog; dual specificity tyrosine phosphatase YVH1; serine/threonine specific protein phosphatase; EC 3.1.3.16; EC 3.1.3.48
Gene ID	11266
mRNA Refseq	NM_007240
Protein Refseq	NP_009171
MIM	604835
UniProt ID	Q9UNI6

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