

Recombinant Human DUSP12 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DUSP12-3459H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DUSP12 MS Standard C13 and N15-labeled recombinant protein (NP_009171) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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	37.7 kDa
AA Sequence	MLEAPGPSDGCELSNPSASRVSCAGQMLEVQPGLYFGGAAVAEPDHLREAGITA

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VLTVDSEEPSFKAGPGVEDLWRLFVPALDKPETDLLSHLDRCVAFIGQARAEGRAVL
 VHCHAGVSRVAITAFMKTDQLPFEKAYEKLQILKPEAKMNEGFQWLKLYQAMG
 YEVDTSIAIKQYRLQKVTEKYPELQNLQPQLFAVDPTTVSQGLKDEVLYKCRKCRR
 SLFRSSSILDHREGSGPIAFAHKRMTPSSMLTTGRQAQCTSYFIEPVQWMESALLGV
 MDGQLLCPKCSAKLGSFNWYGEQCSCGRWITPAFQIHKNRVDEMKILPVLGSQTGK
 ITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name DUSP12 dual specificity phosphatase 12 [Homo sapiens (human)]

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

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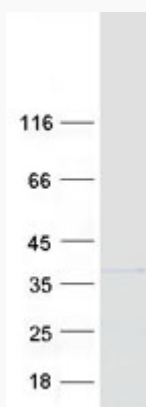
mRNA Refseq [NM_007240](#)

Protein Refseq [NP_009171](#)

MIM [604835](#)

UniProt ID [Q9UNI6](#)

SDS-PAGE



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