

Recombinant Human DUSP4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DUSP4-1041H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DUSP4 MS Standard C13 and N15-labeled recombinant protein (NP_476499) 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 are 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 inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported.
Molecular Mass	32.8 kDa
AA Sequence	MGRKVHNSGSQFAEHSRSPRRTGRDCKPVRAPSMALGVSQLAGRSRCLCSESQG

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GYERFSSEYPEFCSTKALAAIPPPVPPSATEPLDLGCSSCGTPLHDQGGPVEILPFL
 YLGSAHYHAARRDMLDALGITALLNVSSDCPNHFEGHYQYKCIPVEDNHKADISSWF
 MEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKRVRLEEAFEFVKQRRSII
 SPNFSFMGQLLQFESQVLATSCAAEAASPSGPLRERKTPATPTSQFVFSFPVSVG
 VHSAPSSLPYLHSPITTSPTCTRTPLQKLISEEDLAANDILDYKDDDDKV

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 [DUSP4 dual specificity phosphatase 4 \[Homo sapiens \(human\) \]](#)

Official Symbol [DUSP4](#)

Synonyms DUSP4; dual specificity phosphatase 4; dual specificity protein phosphatase 4; HVH2; MAP kinase phosphatase 2; MKP 2; TYP; VH1 homologous phosphatase 2; dual specificity protein phosphatase hVH2; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 2; MKP2; MKP-2;

Gene ID [1846](#)

mRNA Refseq [NM_057158](#)

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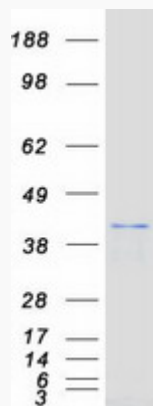
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Protein Refseq NP_476499

MIM 602747

UniProt ID Q13115

SDS-PAGE



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