

## 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  
 YLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHYQYKCIPVEDNHKADISSWF  
 MEAIEYIDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKRVRLEEAFEFVKQRRSII  
 SPNFSFMGQLLQFESQVLATSCAAEAASPSGPLRERKTPATPTSQFVFSFPVSVG  
 VHSAPSSLPYLHSPITTSPECTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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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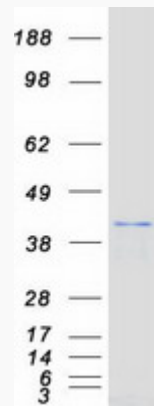
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Protein Refseq NP\_476499

MIM 602747

UniProt ID Q13115

SDS-PAGE



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