

Recombinant Full Length Human DUSP4 Protein, GST-tagged

Cat. No. DUSP4-138HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DUSP4 full-length ORF (AAH02671, 1 a.a. - 394 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	1 a.a. - 394 a.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 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	69.08 kDa
AA Sequence	MVTMEELREM DCSVLKRLMN RDENG GGGAGG SGSHGTLGLP SGGKCLLLDC

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RPFLAHSAGY ILGSVNVRN TIVRRRAKGS VSLEQILPAE EEVRARLRSG
 LYSAVIVYDE RSPRAESLRE DSTVSLVVQA LRRNAERTDI CLLKGGYERF
 SSEYPEFCCK TKALAAIPPP VPPSATEPLD LGCSSCGTPL HDQGGPVEIL
 PFLYLGSAYH AARRDMLDAL GITALLNVSS DCPNHFEHGY QYKCIPVEDN
 HKADISSWFM EAIEYIDAVK DCRGRVLVHC QAGISRSATI CLAYLMMKKR
 VRLEEAFEFV KQRRSIISPN FSFMGQLLQF ESQVLATSCA AEAASPSGPL
 RERGKTPATP TSQFVFSFPV SVGVHSAPSS LPYLHSPITT SPSC

Applications ELISA; WB; Antibody Production; Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name DUSP4 dual specificity phosphatase 4 [Homo sapiens (human)]

Official Symbol DUSP4

Synonyms DUSP4; TYP; HVH2; MKP2; MKP-2; dual specificity phosphatase 4; MAP kinase phosphatase 2; VH1 homologous phosphatase 2; dual specificity protein phosphatase hVH2; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 2; EC 3.1.3.16; EC 3.1.3.48

Gene ID 1846

mRNA Refseq NM_001394

Protein Refseq NP_001385

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MIM	602747
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UniProt ID	Q13115
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