

Recombinant Human DUSP5

Cat. No. DUSP5-28378TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human DUSP5 with N terminal proprietary tag; predicted MWt: 36.52 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
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, is expressed in a variety of tissues with the highest levels in pancreas and brain, and is localized in the nucleus.
Molecular Weight	36.520kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LKEAFDYIKQRRSMVSPNFGFMGQLLQYESEILPSTPNPQPPSCQGEAAGSSLIGHL QTLSPDMQGAYCTFPASVLAPVPTHSTVSELSRSPVATATSC

GENE INFORMATION

Gene Name	DUSP5 dual specificity phosphatase 5 [Homo sapiens]
Official Symbol	DUSP5
Synonyms	DUSP5; dual specificity phosphatase 5; dual specificity protein phosphatase 5; HVH3;
Gene ID	1847
mRNA Refseq	NM_004419
Protein Refseq	NP_004410
MIM	603069
Uniprot ID	Q16690
Chromosome Location	10q25
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Direct p53 effectors,

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organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem;
MAPK signaling pathway, organism-specific biosystem; MAPK signaling pathway,
conserved biosystem;

Function

MAP kinase tyrosine/serine/threonine phosphatase activity; hydrolase activity; protein
tyrosine phosphatase activity;

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