

# Recombinant Full Length Human DUSP5 Protein, GST-tagged

Cat. No. DUSP5-4110HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human DUSP5 full-length ORF (AAH62545.1, 1 a.a. - 384 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	384 amino acids
<b>Description</b>	<p>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. [provided by RefSeq, Jul 2008]</p>
<b>Molecular Mass</b>	68.64 kDa
<b>AA Sequence</b>	MKVTSLDGRQLRKMLRKEAAARCVVLD CRPYLAFAASNVRGSLNVNLNSVVLRRAR GGAVSARYVLPDEAARARLLQEGGGVA AVVVLDQGSRHWQKLREESAARVVLTS

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LLACLPAGPRVYFLKGGYETFYSEYPECCVDVKPISQEKIESERALISQCGKPVVNVS  
 YRPAYDQGGPVEILPFLYLGSAYHASKCEFLANLHITALLNVSRRRTSEACMTHLHYK  
 WIPVEDSHTADISSHFQEAFIDFCVREKGGKVLVHCEAGISRSPTICMAYLMKTKQF  
 RLKEAFDYIKQRRSMVSPNFGFMGQLLQYESEILPSTPNPQPPSCQGEAAGSSLIGH  
 LQTLSPDMQGAYCTFPASVLAPVPTHSTVSELSRSPVATATSC

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**  
 Best use within three months from the date of receipt of this protein.

**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**  
 DUSP5 dual specificity phosphatase 5 [ Homo sapiens ]

**Official Symbol**  
 DUSP5

**Synonyms**  
 DUSP5; dual specificity phosphatase 5; dual specificity protein phosphatase 5; HVH3;  
 VH1-like phosphatase 3; dual specificity protein phosphatase hVH3; serine/threonine  
 specific protein phosphatase; DUSP;

**Gene ID**  
 1847

**mRNA Refseq**  
 NM\_004419

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**Protein Refseq**      [NP\\_004410](#)

**MIM**      [603069](#)

**UniProt ID**      [Q16690](#)

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