# Active Recombinant Human DUSP6, GST-tagged

**Cat. No.** DUSP6-666H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human DUSP6, GST-tagged protein is isolated from an E. coli strain that carries the coding sequence of the human MKP3 under the control of a T7 promoter. |
| **Species** | Human |
| **Source** | E.coli |
| **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 ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Two transcript variants encoding different isoforms have been found for this gene. |
| **Bio-activity** | 20 units are sufficient for a gel-mobility shift assay and 100 units are sufficient for a DNA and protein-protein interactions assay. |

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| **Molecular Mass** | 53.2 kDa. |
| **Purity** | Greater than 90% as determined by SDS-PAGE. |
| **Storage** | Stored at -70°C before use. Avoid repeated freeze thaw cycles. |
| **Concentration** | 2 mg/ml |
| **Storage Buffer** | 20 mM Tris-Cl (pH 8.0), 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA |

## GENE INFORMATION

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| **Gene Name** | DUSP6 dual specificity phosphatase 6 [ Homo sapiens ] |
| **Official Symbol** | DUSP6 |
| **Synonyms** | DUSP6; dual specificity phosphatase 6; dual specificity protein phosphatase 6; MKP 3; PYST1; MAP kinase phosphatase 3; dual specificity protein phosphatase PYST1; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 3; MKP3; |
| **Gene ID** | 1848 |
| **mRNA Refseq** | NM_022652 |
| **Protein Refseq** | NP_073143 |
| **MIM** | 600729 |
| **UniProt ID** | P08651 |

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| **Chromosome Location** | 19p13.3 |
| **Pathway** | FOXA1 transcription factor network, organism-specific biosystem; Gene Expression, organism-specific biosystem; RNA Polymerase I, RNA Polymerase III, and Mitochondrial Transcription, organism-specific biosystem; RNA Polymerase III Abortive And Retractive Initiation, organism-specific biosystem; RNA Polymerase III Transcription, organism-specific biosystem; RNA Polymerase III Transcription Termination, organism-specific biosystem; |
| **Function** | DNA binding; sequence-specific DNA binding transcription factor activity; |

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