

Active Recombinant Human DUSP6, GST-tagged

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

SPECIFICATION

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA