

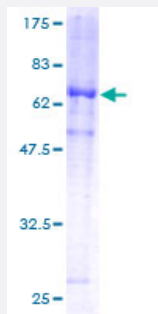
Full-Length

DUSP6 (Human) Recombinant Protein (P01)

Catalog # H00001848-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human DUSP6 full-length ORF (AAH03143, 1 a.a. - 381 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIPGIMLRRLQ
KGNLPVRALFTRGEDRDRFTRRCGTDVVLVYDESSDWNENTGGESLLGLLLKKLKDEGCRAFY
LEGGFSKFQAEFSLHCETNLDGSCSSSSPPLPVLGLGGLRISSDSSSDIESDLDRDPNSATDSD
GSPLSNSQPSFPVEILPFLYLGC AKDSTNLDVLEEFGIKYLNVTPNLPNLFENAGEFKYKQIPISDH
WSQNLSQFFPEAISFIDEARGKNC GVLVHCLAGISRSVTVTVAYLMQKLNLSMNDAYDMKMKKSN
ISPNFNFMGQLLDFERTLGLSSPCDNRVPAQQLYFTTPSNQNVYQVDSLQST

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

67.65

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

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

Applications

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

Gene Info — DUSP6

Entrez GeneID [1848](#)

GeneBank Accession# [BC003143](#)

Protein Accession# [AAH03143](#)

Gene Name DUSP6

Gene Alias MKP3, PYST1

Gene Description dual specificity phosphatase 6

Omim ID [602748](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations MAP kinase phosphatase 3|serine/threonine specific protein phosphatase

Pathway

- [MAPK signaling pathway](#)

Disease

- [Bipolar Disorder](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)