

## Product datasheet for **AR51594PU-N**

### DUSP6 (1-381, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	DUSP6 (1-381, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MIDTLRPVPF ASEMAISKTV AWLNEQLELG NERLLLMDCR PQELYESSHI ESAINVAIPG IMLRRLQKGN LPVRALFTRG EDRDRFTRRC GTDVTVLYDE SSSDWNENTG GESVLGLLLK KLKDEGCRAF YLEGGFSKFQ AEFSLHCETN LDGSCSSSSP PLPVLGLGGL RISSDSSSDI ESDLDRDPNS ATDSDGSPLS NSQPSFPVEI LPFLYLGCAK DSTNLDVLEE FGIKYILNVT PNLPNLFENA GEFKYKQIPI SDHWSQNLQ FFPEAISFID EARGKNCGLV VHCLAGISRS VTVTVAAYLMQ KLNLSMNDAY DIVKMKKSN I SPNFNFMGQL LDFERTLGLS SPCDNRVPAQ QLYFTTPSNQ NVYQVDSLQS T
Tag:	His-tag
Predicted MW:	44.4 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human DUSP6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001937</a>
Locus ID:	1848
UniProt ID:	<a href="#">Q16828</a> , <a href="#">A0A024RBC1</a>



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**Cytogenetics:** 12q21.33

**Synonyms:** HH19; MKP3; PYST1

**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. Mutations in this gene have been associated with congenital hypogonadotropic hypogonadism. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2014]

**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** MAPK signaling pathway

### Product images:

