

Active Recombinant Human Dual Specificity Phosphatase 3, His-tagged

Cat. No. DUSP3-2492H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DUSP3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 22.6 kDa.
Species	Human
Source	E.coli
ProteinLength	1-185aa
Description	DUSP3 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 kinase superfamily, which are associated with cellular proliferation and differentiation. DUSP3 is expressed in both breast and ovarian tissues.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT, 0.15M NaCl.
Bio-activity	Specific activity: >1,750 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme hydrolyzing 1 nmole of p-nitrophenyl phosphate (pNPP) per minute at 37C, pH7.5 using 10mM of substrate.

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Molecular Mass	22.6 kDa (205aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSGSFELSVQ DLNDLLSDGS GCYSLPSQPC NEVTPRIYVG NASVAQDIPK LQKLGITHVL NAAEGRSFMH VNTNANFYKD SGITYLGIIKA NDTQEFNLSA YFERAADFID QALAQKNGRV LVHCREGYSR SPTLVIAYLM MRQKMDVKSA LSIVRQNREI GPNDGFLAQL CQLNDRLAKE GKCLKP
Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford)

GENE INFORMATION

Gene Name	DUSP3 dual specificity phosphatase 3 [Homo sapiens]
Official Symbol	DUSP3
Synonyms	DUSP3; dual specificity phosphatase 3; vaccinia virus phosphatase VH1 related , VHR; dual specificity protein phosphatase 3; vaccinia H1-related phosphatase; vaccinia virus phosphatase VH1-related; dual specificity protein phosphatase VHR; serine/threonine specific protein phosphatase; VHR;
Gene ID	1845
mRNA Refseq	NM_004090

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Protein Refseq	NP_004081
MIM	600183
UniProt ID	P51452
Chromosome Location	17q21
Pathway	Activated TLR4 signalling, organism-specific biosystem; ERK/MAPK targets, organism-specific biosystem; ERKs are inactivated, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; MAP kinase activation in TLR cascade, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem;
Function	MAP kinase phosphatase activity; hydrolase activity; phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity;