

DuSP3 active protein

DuSP3, 1-185aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48723	HOST E Coli	APPLICATIONS SDS-Page
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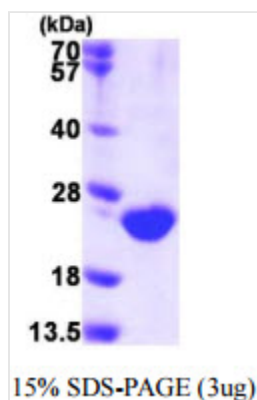
PRODUCT SYNONYMS

DuSP3; 1-185aa; Human; His tag; E Coli (Bioactivity Validated); Dual specificity protein phosphatase 3; VHR; DuSP3 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.15M NaCl.
Concentration	1 mg/ml (determined by Bradford) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MSGSFELSVQ DLNDLLSDGS GCYSLPSQPC NEVTPRIYVG NASVAQDIPK LQKLGITHVL NAAEGRSFMH VNTNANFYKD SGITYLGIKA NDTQEFNLSA YFERAADFID QALAQKNGRV LVHCREGYSR SPTLVIAIYLM MRQKMDVKSA LSIVRQNREI GPNDGFLAQL CQLNDRLAKE GKLP
Sequence Length	185
Applicable Applications for DuSP3 active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Biological Activity	Specific activity is > 1,000 units/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmoles of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for DuSP3 active protein	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. DuSP3 Shows activity both for tyrosine-protein phosphate and serine-protein phosphate, but displays a strong preference toward phosphotyrosines. Specifically dephosphorylates and inactivates ERK1 and ERK2. Recombinant human DuSP3 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for DuSP3 active protein	Cancer
References	Todd JL., et al. (1999) J Biol Chem. 274 (19):13271-80.; Keyse SM., et al. (1995) Biochim Biophys Acta. 1265 (2-3):152-60.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758208
NCBI GeneID	1845
NCBI Accession #	NP_004081
NCBI GenBank Nucleotide #	NM_004090.3
UniProt Accession #	P51452; Q5U0J1; Q8IYJ9; D3DX45
Molecular Weight	22.6 kDa (205aa), confirmed by MALDI-TOF
NCBI Official Full Name	dual specificity protein phosphatase 3
NCBI Official Synonym Full Names	dual specificity phosphatase 3
NCBI Official Symbol	DUSP3
NCBI Official Synonym Symbols	VHR
NCBI Protein Information	dual specificity protein phosphatase 3
UniProt Protein Name	Dual specificity protein phosphatase 3
UniProt Gene Name	DUSP3
UniProt Synonym Gene Names	VHR; VHR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/dusp3/48723>