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## Recombinant human VHR/DUSP3 protein

Catalog Number: ATGP1237

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-185aa

#### UniProt No.

P51452

#### **NCBI Accession No.**

NP 004081

#### **Alternative Names**

Dual specificity protein phosphatase 3, VHR, Dual specificity protein phosphatase VHR, Vaccinia H1-related phosphatase, Vaccinia virus phosphatase VH1-related

### PRODUCT SPECIFICATION

## **Molecular Weight**

22.6 kDa (205aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.15M NaCl.

#### **Purity**

> 95% by SDS-PAGE

### **Biological Activity**

Specific activity is > 1,000unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.

#### Tag

His-Tag

## **Application**

SDS-PAGE, Enzyme Activity

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

## **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



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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.

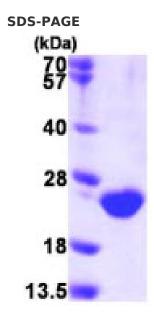
## **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MSGSFELSVQ DLNDLLSDGS GCYSLPSQPC NEVTPRIYVG NASVAQDIPK LQKLGITHVL NAAEGRSFMH VNTNANFYKD SGITYLGIKA NDTQEFNLSA YFERAADFID QALAQKNGRV LVHCREGYSR SPTLVIAYLM MRQKMDVKSA LSIVRQNREI GPNDGFLAQL CQLNDRLAKE GKLKP

## **General 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.

#### **DATA**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

