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

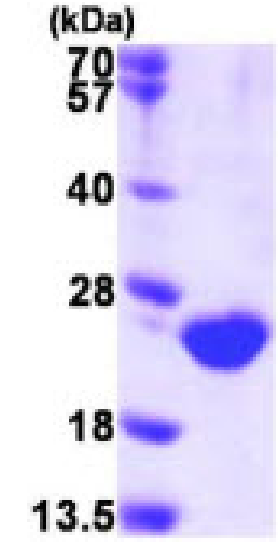
MGSSHHHHHH SSGLVPRGSH MSGSFELSVQ DLNDLLSDGS GCYSLPSQPC NEVTPRIYVG NASVAQDIPK LQKLGITHVL NAAEGRSFMH VNTNANFYKD SGITYLGIKA NDTQEFNLSA YFERAADFID QALAQKNGRV LVHCREGYSR SPTLVIAYLM MRQKMDVKSA LSIVRQNREI GPNDGFLAQL CQLNDRLAKE GKLKP

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

SDS-PAGE



15% SDS-PAGE (3ug)

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