

## Human Recombinant DUSP3

**CATALOG #:** 6371-100 100 µg

**ALTERNATE NAMES:** Dual specificity protein phosphatase 3, VHR.

**SOURCE:** E.Coli

**PURITY:** > 95% by SDS - PAGE

**MOL. WEIGHT:** 22.6 kDa (205 aa, 1-185 aa + NT His-Tag)

**FORMULATION:** 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2 mM DTT and 0.15 M NaCl.

### STORAGE CONDITIONS:

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.

### DESCRIPTION:

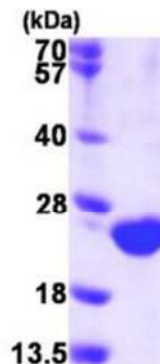
DUSP3 belongs to the dual specificity protein phosphatase subfamily which inactivates their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. DUSP3 negatively regulate members of the mitogen-activated protein kinase superfamily that are related to cellular proliferation and differentiation. DUSP3 is expressed in both breast and ovarian tissues and displays activity both for tyrosine-protein phosphate and serine-protein phosphate, but exhibits a strong preference toward phosphotyrosines, specifically dephosphorylates and inactivates ERK1 and ERK2.

### AMINO ACID SEQUENCE:

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

### BIOLOGICAL ACTIVITY:

Specific Activity: >1750 units/mg. One unit will hydrolyze 1 nmole of p-nitrophenylphosphatate (pNPP) per minute at 37°C, pH 7.5 using 10 mM of substrate.



15% SDS-PAGE (3µg)

Human Recombinant DUSP3

### RELATED PRODUCTS:

- bpV (phen) (Cat. No. 1793-5)
- bpV (pic) (Cat. No. 1794-5)
- PTP1B Antibody (Cat. No. 3171-100)
- PTP1B Antibody (Cat. No. 3174-100)
- Nodularin (Cat. No. 2994-50)
- PTPRD Antibody (NT) (Cat. No. 5313-100)
- PTP1B Antibody (Clone 107AT531) (Cat. No. 3122-100)
- Phosphoseek™ PTP1B Assay kit (Cat. No. K707-400)
- Human recombinant PTP1B (Cat. No. 6301-100)
- Human recombinant SHP-1 (Cat. No. 6302-100)
- Human recombinant PP2C alpha (Cat. No. 6303-100)
- Human recombinant PPM1G (Cat. No. 6369-50)
- Human recombinant PPP1CA (Cat. No. 6370-10)

**FOR RESEARCH USE ONLY! Not to be used in humans.**