

## 32-2296: DUSP3 Recombinant Protein

**Alternative Name** Dual specificity phosphatase 3,VHR,Vaccinia virus phosphatase VH1-related,Dual specificity protein phosphatase VHR,Vaccinia H1-related phosphatase,serine/threonine specific protein phosphatase.

### Description

Source : E.coli. DUSP3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 205 amino acids (1-185) and having a molecular mass of 22.6 kDa.DUSP3 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 95% as determined by SDS-PAGE.  
**Content :** The DUSP3 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 2mM DTT and 10% glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MSGSFELSVQ DLNDLLSDGS GCYSLPSQPC NEVTPRIYVG  
NASVAQDIPK LQKLGITHVL NAAEGRSFMH VNTNANFYKD SGITYLGIIKA NDTQEFNLSA  
YFERAADFID QALAQKNGRV LVHCREGYSR SPTLVIAYLM MRQKMDVKS A LSIVRQNREI  
GPNDGFLAQL CQLNDRLAKE GKLKP.

### Application Note

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.

