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# Recombinant human DUSP23 protein

Catalog Number: ATGP3563

#### **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-150aa

#### **UniProt No.**

Q9BVJ7

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

NP 060293

#### **Alternative Names**

Dual specificity protein phosphatase 23, DuSP25, LDP-3, MOSP, VHZ, Low molecular mass dual specificity phosphatase 3, VH1-like phosphatase Z

## PRODUCT SPECIFICATION

# **Molecular Weight**

18.8 kDa (170aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

#### **Purity**

> 90% by SDS-PAGE

## **Biological Activity**

Specific activity is > 200unit/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**

DUSP23, also known as low molecular mass dual specificity phosphatase 3 (LDP-3), belongs to the protein-tyrosine phosphatase family. This protein is a protein phosphatase that mediates dephosphorylation of proteins



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phosphorylated on Tyr and Ser/Thr residues. In vitro, it can dephosphorylate p44-ERK1 (MAPK3) but not p54 SAPK-beta (MAPK10) in vitro. This protein able to enhance activation of JNK and p38 (MAPK14). Recombinant human DUSP23 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

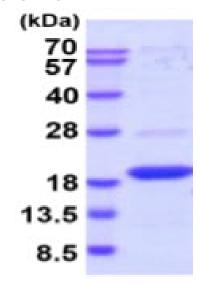
MGSSHHHHHH SSGLVPRGSH MGVQPPNFSW VLPGRLAGLA LPRLPAHYQF LLDLGVRHLV SLTERGPPHS DSCPGLTLHR LRIPDFCPPA PDQIDRFVQI VDEANARGEA VGVHCALGFG RTGTMLACYL VKERGLAAGD AIAEIRRLRP GSIETYEQEK AVFOFYORTK

## **General References**

Alonso A., et al. (2004) J. Biol. Chem. 279:35768-35774 WU Q, et al. (2004) Int J Biochem Cell Biol. 36(8):1542-53.

# **DATA**





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

15% SDS-PAGE (3ug)