# 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

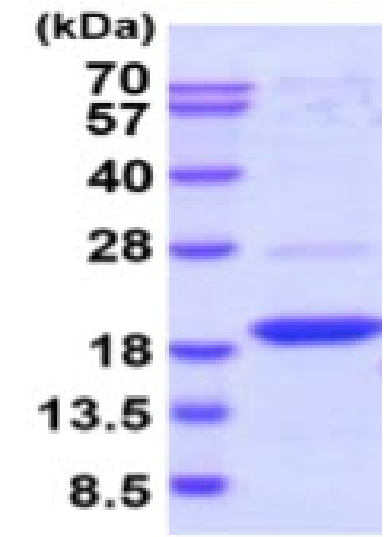
MGSSHHHHHH SSGLVPRGSH MGVQPPNFSW VLPGRLAGLA LPRLPAHYQF LLDLGVRHLV SLTERGPPHS DSCPGLTLHR LRIPDFCPPA PDQIDRFVQI VDEANARGEA VGVHCALGFG RTGTMLACYL VKERGLAAGD AIAEIRRLRP GSIETYEQEK AVFQFYQRTK

### 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

### SDS-PAGE




15% SDS-PAGE (3ug)

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