

# Recombinant human MKPX/DUSP22 protein

Catalog Number: ATGP2684

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-184aa

**UniProt No.**

Q9NRW4

**NCBI Accession No.**

NP\_064570

**Alternative Names**

Dual specificity phosphatase 22, JKAP, JSP1, LMWDSP2, MKPX, VHX, JNK-stimulatory phosphatase-1, Low molecular weight dual specificity phosphatase 2, LMW-DSP2, Mitogen-activated protein kinase phosphatase x, MAP kinase phosphatase x, MKP-x

## PRODUCT SPECIFICATION

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**Molecular Weight**

23.3 kDa (207aa)

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

**Purity**

&gt; 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**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

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**Description**

DuSP22 belongs to the protein-tyrosine phosphatase family and contains 1 tyrosine-protein phosphatase domain. This protein activates the Jnk signaling pathway and dephosphorylates and deactivates p38 and stress-activated protein kinase/c-Jun N-terminal kinase (SAPK/JNK). Recombinant human DuSP22 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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### Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMGNGMNK ILPGLYIGNF KDARDAEQLS KKNVTHILSV HDSARPMLEG VKYLCIPAAD  
SPSQNLTRHF KESIKFIHEC RLRGESCLVH CLAGVRSRVT LVIAYIMTVT DFGWEDALHT VRAGRSCANP NVGFQRQLQE  
FEKHEVHQYR QWLKEEYGES PLQDAEEAKN ILAAPGILKF WAFLRRL

### General References

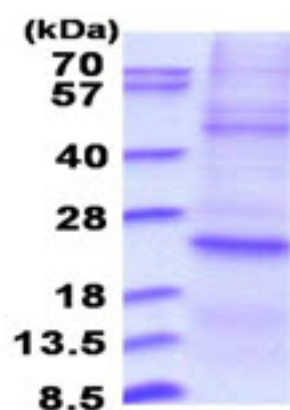
Shen Y., et al. (2001) Proc. Natl. Acad. Sci. u.S.A. 98:13613-13618

Schwertassek u., et al. (2010) FEBS J. 277:2463-2473

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)