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**Product Data Sheet**


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Product Name: DUSP10 Human

Cat. No.: GP21576

Batch No.: 1

**Product Data**

Purity &gt;98%

Source E.coli.

Physical  
Appearance solidShipping  
Condition Shipped with Ice Packs.

Synonyms Dual specificity protein phosphatase 10; dual specificity phosphatase MKP-5; MKP-5; MAP kinase phosphatase 5; Mitogen-activated protein kinase phosphatase 5; serine/threonine specific protein phosphatase; EC 3.1.3.16; EC 3.1.3.48.

Amino Acid  
Sequence MGSSHHHHHH SGLVPRGSH MGSHMIIYPN DLAKKMTKCS KSHLPSQGPV  
IIDCRPFMEY NKSHIQGAVH INCADKISRR RLQQGKITVL DLISCREGKD  
SFKRIFSKEI IVYDENTNEP SRVMP SQPLH IVLESLKREG KEPLVLKGGGL  
SSFKQNHENL CDNSLQLQEC REVGGGASAA SLLPQPIPT TPDINAELT  
PILPFLFLGN EQDAQDLDTM QRLNIGYVIN VTTHLPLYHY EKGLFNYKRL  
PATDSNKQNL RQYFEEAFEF IEEAHQCGKG LLIHCQAGVS RSATIVIAYL  
MKHTRMTMTD AYKFVKGKRP IISPNLNFMG QLLEFEEDLN NGVTPRILTP  
KLMGVETVV.

Formulation The DUSP10 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 50% glycerol.

**Introduction**

DUSP10 is a member of the protein-tyrosine phosphatase family. DUSPs inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues and negatively regulate members of the MAPK superfamily which is linked with cellular proliferation and differentiation. DUSP10 interacts with MAPK14 and MAPK8. DUSP10 blocks in mammalian cells the enzymatic activation of MAP kinases with the selectivity p38 approximately JNK/SAPK >> ERK.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

### Background

DUSP10 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 359 amino acids (149-482) and having a molecular mass of 40.4kDa. DUSP10 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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