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**Product Data Sheet**


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Product Name: DUSP19 Human  
 Cat. No.: GP21580  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Dual specificity protein phosphatase 19; Dual specificity phosphatase TS-DSP1; Low molecular weight dual specificity phosphatase 3; LMW-DSP3; Protein phosphatase; SKRP1; Stress-activated protein kinase pathway-regulating phosphatase 1; SAPK pathway-regulating phosphatase 1; DUSP19; DUSP17; LMWDSP3; TS-DSP1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSQVGVIKP WLLGSDAA HDLDTLKKNK VTHILNVAYG VENAFLSDFT YKISILDLP ETNILSYFPE CFEFIEEAKR KDGVVLVHCN AGVSRAAAIV IGFLMNSEQT SFTSAFSLVK NARPSICPNS GFMEQLRITYQ EGKESNKCDR IQENSS.		
Formulation	The DUSP19 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 30% glycerol and 0.1M NaCl.		

**Introduction**

DUSPs are distinguished by their ability to dephosphorylate both tyrosine and serine/threonine residues. DUSPs have been implicated as major modulators of critical signaling pathways. Dual specificity phosphatase 19 (DUSP19) belongs to the dual specificity protein phosphatase subfamily. DUSP19 is a protein phosphatase which functions as a stress-activated protein kinase pathway-regulating phosphatase. DUSP19 contains a variation of the consensus DUSP C-terminal catalytic domain, with the last serine residue replaced by alanine, and lacks the N-terminal CH2 domain found in the MKP class of DUSPs.

**Stability**

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%

**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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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

DUSP19 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 176 amino acids (65-217) and having a molecular mass of 19.4kDa. DUSP19 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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