
Product Data Sheet

Product Name: DUSP21 Human
 Cat. No.: GP21581
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Dual specificity phosphatase 21; Low molecular weight dual specificity phosphatase 21; LMW-DSP21; BJ-HCC-26 tumor antigen; EC 3.1.3.16; EC 3.1.3.48.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMTASAS SFSSSQGVQQ PSIYSFSQIT RSLFLSNGVA ANDKLLLSSN RITAVNASV EVNVVFFEGI QYIKVPVTDA RDSRLYDFFD PIADLIHTID MRQGRLLHC MAGVSRASL CLAYLMKYHS MSLDAHTWT KSRRPIIRPN NGFWEQLINY EFKLFNNNTV RMINSPVGNU PDIYEKDLRM MISM		
Formulation	The DUSP21 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 20% glycerol.		

Introduction

DUSP21 is a member of the protein-tyrosine phosphatase family. DUSPs inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. DUSP21 is able to dephosphorylate single and diphosphorylated synthetic MAPK peptides, favoring the phosphotyrosine and diphosphorylated forms over phosphothreonine. DUSP21 is only expressed in testis where there are dephosphorylated phosphotyrosine residues in MAPK peptides.

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

Background

DUSP21 Human Recombinant produced in E.coli is a single, non-glycosylated

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

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polypeptide chain containing 214 amino acids (1-190) and having a molecular mass of 24.1kDa. DUSP21 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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