

DUSP21, human recombinant protein
Dual specificity protein phosphatase 21
Catalog # PBV11375r**Specification**

DUSP21, human recombinant protein - Product info

Primary Accession	O9H596
Concentration	0.25
Calculated MW	24.1 kDa (214 aa, 1-190 aa + His Tag) kDa

DUSP21, human recombinant protein - Additional Info

Gene ID	63904
Gene Symbol	DUSP21
Other Names	
Dual specificity protein phosphatase 21	
Gene Source	Human
Source	E.coli
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	Specific activity is > 1800 unit/mg
Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTASAS SFSSSQGVQQ PSIYSFSQIT RSLFLSNGVA ANDKLLLSSN RITAIVNASV EVNVFFEGI QYIKVPVTD RDSRLYDFFD PIADLIHTID MRQGRTLLHC MAGVSRASL CLAYLMKYHS MSLLDAHTWT KSRRPIIRPN NGFWEQLINY EFKLFNNNTV RMINSPVGNI PDIYEKDLRM MISM

Target/Specificity
DUSP21**Format**
Liquid**Storage**
-20°C; 0.25 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 200 mM NaCl and 2 mM DTT**DUSP21, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DUSP21, human recombinant protein - Images**DUSP21, human recombinant protein - Background**

DuSP21 (Dual specificity protein phosphatase 21) belongs to the protein-tyrosine phosphatase family. Dual specificity protein phosphatases (DuSPs) inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. This enzyme can dephosphorylate single and diphosphorylated synthetic MAPK peptides, with preference for the phosphotyrosine and diphosphorylated forms over phosphothreonine. It is exclusively expressed in testis where it preferentially dephosphorylates phosphotyrosine residues in MAPK peptides. Recombinant human DuSP21 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

DUSP21, human recombinant protein - References

Hood K.L., et al. Biochem. Biophys. Res. Commun. 298:545-551(2002).
Mao Y., et al. Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases.
Ross M.T., et al. Nature 434:325-337(2005).
Sjoebom T., et al. Science 314:268-274(2006).