Recombinant human TMDP/DUSP13 protein

Catalog Number: ATGP1654

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-198aa

UniProt No.
Q9UII6

NCBI Accession No.
NP_057448.3

Alternative Names
Dual specificity protein phosphatase 13 isoform B, DUSP13B, Dual specificity phosphatase SKRP4, Testis- and skeletal-muscle-specific DSP, TMDP, muscle-restricted DUSP, BEDP, TMDP, MDSP, FLJ32450, DUSP13A

PRODUCT SPECIFICATION

Molecular Weight
24.7 kDa (222aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

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

Description
DUSP13 (Dual specificity phosphatase 13) belongs to the protein-tyrosine phosphatase family. It cooperates with protein kinases to regulate cell proliferation and differentiation. DUSP13 is involved in the regulation of meiosis and/or differentiation of testicular germ cells during spermatogenesis. This protein exhibits intrinsic phosphatase activity towards both phospho-seryl/threonyl and -tyrosyl residues of myelin basic protein, with similar specific activities in vitro. Recombinant human DUSP13 protein, fused to His-tag at N-terminus, was expressed in E. coli

Recombinant human TMDP/DUSP13 protein

Catalog Number: ATGP1654

and purified by using conventional chromatography techniques.

Amino acid Sequence

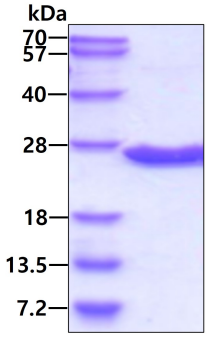
<MGSSHHHHHH SSGLVPRGSH MGSH>MDSLQK QDLRRPKIHG AVQASPYQPP TLASLQRLLW VRQAATLNHI DEVWPSLFLG DAYAARDKSK LIQLGITHVV NAAAGKFQVD TGAKFYRGMS LEYYGIEADD NPFFDLSVYF LPVARYIRAA LSVPQGRVLV HCAMGVSRSA TLVLAFLMIC ENMTLVEAIQ TVQAHRNICP NSGFLRQLQV LDNRLGRETG RF

General References

Chen H.-H., et al. (2004) J. Biol. Chem. 279:41404-41413
Katagiri C, et al. (2011) Mol Cell Biochem. 352(1-2):155-62.

DATA

SDS-PAGE



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