

Recombinant human MDP1 protein

Catalog Number: ATGP0823

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-176aa

UniProt No.

Q86V88

NCBI Accession No.

NP_612485

Alternative Names

Magnesium-dependent phosphatase 1, MDP-1

PRODUCT SPECIFICATION

Molecular Weight

22.6 kDa (200aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 100mM NaCl

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

MDP1 (Magnesium-dependent phosphatase 1) belongs to the HAD-like hydrolase superfamily. This protein is a magnesium-dependent phosphatase which may act as a tyrosine phosphatase. It is inhibited by vanadate and zinc, and slightly by calcium. Recombinant human MDP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGSH>MARLPK LAVFDLDYTL WPFWVDTHVD PPFHKSSDGT VRDRRGQDVR

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LYPEVPEVLK RLQSLGVPGA AASRTSEIEG ANQLLELFDL FRYFVHREIY PGSKITHFER LQKKTGIPFS QMIFFDDERR
NIVDVSKLGV TCIHIQNGMN LQTLSQGLET FAKAQTGPLR SSLEESPFEA

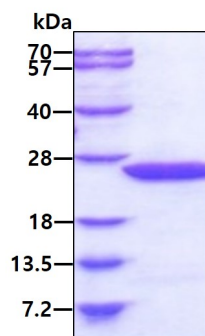
General References

Fortpied J., et al. (2006) J Biol Chem. 281(27):18378-85.

Selengut J.D., et al. (2000) Biochemistry 39(28):8315-24.

DATA

SDS-PAGE



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