

Recombinant human HDDC3 protein

Catalog Number: ATGP1267

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-140aa

UniProt No.

Q8N4P3

NCBI Accession No.

NP_940929

Alternative Names

Guanosine-3'5'-bis(diphosphate)-pyrophosphohydrolase MESH1, Guanosine-3',5'-bis(diphosphate)-pyrophosphohydrolase MESH1, MESH1, ppGpp

PRODUCT SPECIFICATION

Molecular Weight

17.9 kDa (160aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

Purity

> 90% 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

HDDC3, also known as guanosine-3', 5'-bis (diphosphate) -pyrophosphohydrolase MESH1, contains an active site for ppGpp hydrolysis and a conserved His-Asp-box motif for Mn (2+) binding. Consistent with these structural data, HDDC3 efficiently catalyzes hydrolysis of guanosine 3', 5'-diphosphate (ppGpp) both in vitro and in vivo. HDDC3 also suppresses SpoT-deficient lethality and RelA-induced delayed cell growth in bacteria. Recombinant human HDDC3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSEAAQLLE AADFAARKHR QRRRKDPEGT PYINHPIGVA RILTHEAGIT DIVVLQAALL
HDTVEDTDTT LDEVELHFGA QVRRLVVEVT DDKTLPKLER KRLQVEQAPH SSPGAKLVKL ADKLYNLRDL NRCTPEVKIQ

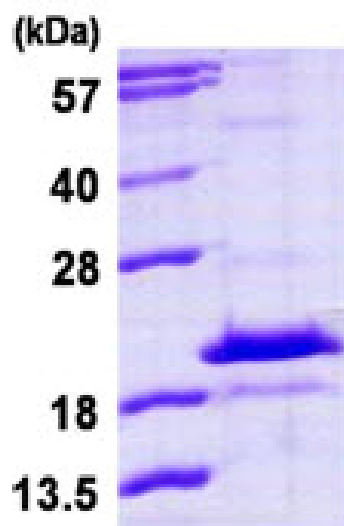
General References

Sun D., et al. (2010) Nat. Struct. Mol. Biol. 17:1188-1194

Zody M.C., et al. (2006) Nature. 440:671-675

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)