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## Recombinant human HDDC3 protein

Catalog Number: ATGP1267

#### **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-140aa

#### UniProt No.

**O8N4P3** 

#### **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**

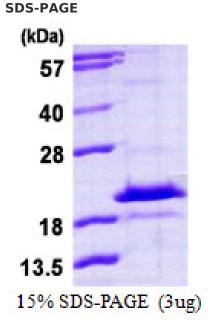
MGSSHHHHHH SSGLVPRGSH MGSEAAQLLE AADFAARKHR QQRRKDPEGT PYINHPIGVA RILTHEAGIT DIVVLQAALL HDTVEDTDTT LDEVELHFGA QVRRLVEEVT DDKTLPKLER KRLQVEQAPH SSPGAKLVKL ADKLYNLRDL NRCTPEVKIQ

#### **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**

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

