

Product information



HDDC3, 1-140aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1267

Full name: Guanosine-3',5'-bis(diphosphate)-pyrophosphohydrolase MESH1 **NCBI Accession No.:** NP_940929

Synonyms: MESH1, ppGpp

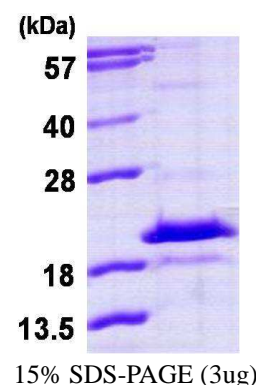
Description: HDDC3, also known as guanosine-3',5'-bis(diphosphate)-pyrophosphohydrolase MESH1, contains an active site for ppGpp hydrolysis and a conserved His-Asp-box motif for Mn(2+) binding. Consistent with these structural data, HDDC3 efficiently catalyzes hydrolysis of guanosine 3',5'-diphosphate (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 conventional chromatography.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol,
0.15M NaCl, 1mM DTT

Molecular Weight: 17.9 kDa (160aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSEAAQLLE AADFAARKHR QRRKDPEGT PYINHPIGVA RILTHEAGIT DIVVLQAALL HDTVEDTDTT
LDEVELHFGA QVRLVEEVT 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

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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