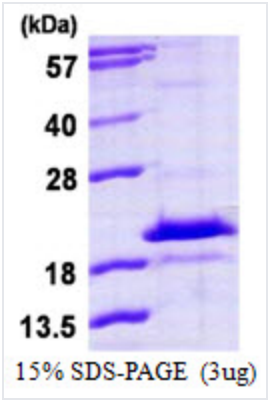
HDDC3 Recombinant Protein

PRODUCT OVERVIEW

Product Name	HDDC3, Recombinant Protein
Full Product Name	HDDC3, 1-140aa, Human, His tag, E Coli
Product Gene Name	HDDC3 recombinant protein
Product Synonym Names	Guanosine-3'5'-bis (diphosphate)-pyrophosphohydrolase MESH1; Guanosine-3',5'-bis (diphosphate)-pyrophosphohydrolase MESH1; MESH1; ppGpp
Sequence	MGSSHHHHHH SSGLVPRGSH MGSEAAQLLE AADFAARKHR QQRRKDPEGT PYINHPIGVA RILTHEAGIT DIVVLQAALL HDTVEDTDTT LDEVELHFGA QVRRLVEEVT DDKTLPKLER KRLQVEQAPH SSPGAKLVKL ADKLYNLRDL NRCTPEVKIQ
Host	E Coli
Form/Format	Liquid. 20mM Tris-HCl Buffer (pH 8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT
Purity/Purification	> 90% by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	17.9 kDa (160aa), confirmed by MALDI-TOF
3D Structure	ModBase 3D Structure for Q8N4P3
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for HDDC3 recombinant protein	Enzymes & Proteases
Applications Tested/Suitable for HDDC3 recombinant protein	SDS-PAGE
Related Product Information for HDDC3 recombinant protein	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.
Product References and Citations for HDDC3 recombinant protein	Sun D., et al. (2010) Nat. Struct. Mol. Biol. 17:1188-1194; Zody M.C., et al. (2006) Nature. 440:671-675
Other Notes	Small volumes of HDDC3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HDDC3 purchase	MBS204110 is a recombinant protein targeting HDDC3. Also known as HDDC3, 1-140aa, Human, His tag, E Coli. Host: E Coli.



SDS-Page of HDDC3 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDDC3. It may not necessarily be applicable to this product.

NCBI GI #	38348360
NCBI GeneID	374659
NCBI Accession #	NP_940929
UniProt Primary Accession #	Q8N4P3
UniProt Related Accession #	Q8N4P3
GenBank Nucleotide #	NM_198527.4
NCBI Official Full Name	guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1 isoform 2
NCBI Official Synonym Full Names	HD domain containing 3
NCBI Official Symbol	HDDC3
NCBI Official Synonym Symbols	MESH1; (ppGpp)ase
UniProt Protein Name	Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1
UniProt Synonym Protein Names	HD domain-containing protein 3; Metazoan SpoT homolog 1; MESH1; Penta-phosphate guanosine-3'-pyrophosphohydrolase; (ppGpp)ase
UniProt Gene Name	HDDC3
UniProt Synonym Gene Names	MESH1; MESH1; (ppGpp)ase
NCBI Protein Information	guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1
UniProt Comments for HDDC3	ppGpp hydrolyzing enzyme involved in starvation response.
Research Articles on HDDC3	**1.** Mesh1, encoded by HDDC3 in humans, contains an active site for ppGpp hydrolysis and a conserved His-Asp-box motif for Mn(2+) binding. It catalyzes hydrolysis of ppGpp both in vitro and in vivo.
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