

Recombinant Human HDDC3, His-tagged

Cat. No. HDDC3-1528H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HDDC3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-140aa
Description	HDDC3, also known as guanosine-3',5'-bis(diphosphate)-pyrophosphohydrolase MES H1, 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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT
Molecular Mass	17.9 kDa (160aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH LDEVELHFGA QVRRLVEEVTD DDKTLPKLER KRLQVEQAPH SSPGAKLVKL ADKLYNLRDL NRCTPEVKIQ MGSEAAQLLE AADFAARKHR QQRRKDPEGT PYINHPIGVA RILTAEAGIT DIVVLQAALL HDTVEDTDTT

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Purity	> 90% by SDS - PAGE
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.
Concentration	0.5 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	HDDC3 HD domain containing 3 [Homo sapiens (human)]
Official Symbol	HDDC3
Synonyms	HDDC3; MESH1; MGC45386; guanosine-3",5"-bis(diphosphate); 3"-pyrophosphohydrolase MESH1; (ppGpp)ase; OTTHUMP00000180560; OTTHUMP00000180561; metazoan SpoT homolog 1; metazoan SpoT homolog-1; HD domain-containing protein 3; penta-phosphate guanosine-3"-pyrophosphohydrolase
Gene ID	374659
mRNA Refseq	NM_198527
Protein Refseq	NP_940929
UniProt ID	Q8N4P3
Chromosome Location	15q26.1
Pathway	Purine metabolism

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Function	guanosine-3',5'-bis(diphosphate) 3'-diphosphatase activity; metal ion binding
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