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## Product Data Sheet

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Product Name: HDDC3 Human  
 Cat. No.: GP21783  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Guanosine-3';5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1; HD domain-containing protein 3; Metazoan SpoT homolog 1; MESH1; Pentaphosphate guanosine-3'-pyrophosphohydrolase; (ppGpp)ase; HDDC3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEAAQLLE AADFAARKHR QRRRKDPEGT PYINHPIGVA RILTHERAGIT DIVVLQAALL HDTVEDTDTT LDEVELHFGA QVRRRLVEEVT DDKTLPKLER KRLQVEQAPH SSPGAKLVKL ADKLYNLRDL NRCTPEVKIQ.		
Formulation	The HDDC3 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 0.15M NaCl and 1mM DTT.		

### Introduction

Guanosine-3',5'-bis(diphosphate)-pyrophosphohydrolase MESH1 (HDDC3) contains an active site for ppGpp hydrolysis and a conserved His-Asp-box motif for Mn(2+) binding. In accordance with its structure, HDDC3 effectively catalyzes the hydrolysis of guanosine 3',5'-diphosphate (ppGpp) both in vitro and in vivo. In addition, HDDC3 suppresses SpoT-deficient lethality and RelA-induced delayed cell growth in bacteria.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

HDDC3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 160 amino acids (1-140) and having a molecular mass of 17.9kDa. HDDC3 is fused to a 20 amino acid His-tag at N-terminus & purified by

**Caution: Product has not been fully validated for medical applications. For research use only.**

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proprietary chromatographic techniques.

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