

## HDDC3 Human

**Description:** 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 proprietary chromatographic techniques.

**Catalog #:** ENPS-191

For research use only.

**Synonyms:** Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1, HD domain-containing protein 3, Metazoan SpoT homolog 1, MESH1, Penta-phosphate guanosine-3'-pyrophosphohydrolase, (ppGpp)ase, HDDC3.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSEAAQLLE AADFAARKHR  
QQRKRDPEGT PYINHPIGVA RILTHEAGIT DIVVLQAALL HDTVEDTDTT LDEVELHFGA  
QVRRLVEEVT DDKTLPKLER KRLQVEQAPH SSPGAKLVKL ADKLYNLRDL NRCTPEVKIQ.

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

The HDDC3 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 0.15M NaCl and 1mM DTT.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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