

**HDCC3, 1-140aa, Human, His tag, E.coli**

**Cat.NO.: TP02424**

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3th Edition

**Synonyms:** Guanosine-3',5'-bis(diphosphate)-pyrophosphohydrolase MESH1, MESH1, ppGpp

**Description:** HDCC3, 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, HDCC3 efficiently catalyzes hydrolysis of guanosine 3',5'-diphosphate (ppGpp) both in vitro and in vivo. HDCC3 also suppresses SpoT-deficient lethality and RelA-induced delayed cell growth in bacteria. Recombinant human HDCC3 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

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSEAAQLLEAADFAARKHRQRRKDPEGTPYINHPIGVARILTHEAGITDIVVLQ  
AALLHDTVEDTDTTLDEVELHFQAQVRRLLVEEVTDDKTLPKLERKRLQVEQAPHSSPGAKLVKLADKLYNLRDLNR  
CTPEVKIQ

**Purity:** > 95% by HPLC

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

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**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.