

HDHC3, 1-140aa, Human, His tag, E.coli

Cat.NO.: TP02424

3th Edition

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

Description:HDHC3, 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, HDHC3 efficiently catalyzes hydrolysis of guanosine 3',5'-diphosphate (ppGpp) both in vitro and in vivo. HDHC3 also suppresses SpoT-deficient lethality and RelA-induced delayed cell growth in bacteria. Recombinant human HDHC3 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
AALLHDTVEDTDTTLDEVELHFGAQVRLVEEVTDDKTLPKLERKRLQVEQAPHSSPGAKLVKLADKLYNLRDLNR
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.