

Recombinant human HSP60 protein

Catalog Number: HSP0802

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-573aa

UniProt No.

P10809

NCBI Accession No.

NP_002147.2

Alternative Names

Heat shock 60kDa protein 1, CPN60, GroEL, HSP65, SPG13, HuCHA60, Heat shock 60kDa protein 1, HSP60, Heat shock 60kDa protein 1 60 kDa chaperonin, GroEL, E. coli, homolog of, 60 kDa heat shock protein mitochondrial, 60kDa, cb863, Chaperonin, Chaperonin 60, Chaperonin, 60-KD, CPN 60, fa04a05, fb22d10, fi27b05, GroEL Homolog, Heat shock 60kD protein 1 (chaperonin), Heat shock 60kD protein 1 chaperonin, heat shock 60kDa protein 1 (chaperonin), Heat shock protein 1 (chaperonin), Heat Shock Protein 60, Heat shock protein 65, HLD4, Hsp 60, HSP 65, HSPD 1, HSPD1, HuCHA60, id:ibd2197, Spastic paraplegia 13 Mitochondrial matrix protein P1, P60 lymphocyte protein, sb:cb144, Short heat shock protein 60 Hsp60s1, Spastic paraplegia 13 (autosomal dominant), SPG 13, wu:fa04a05, wu:fb22d10, wu:fi04a12, wu:fi27b05.

PRODUCT SPECIFICATION

Molecular Weight

63.2 kDa (593aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 25mM Tris-HCl buffer (pH 7.5) containing 100mM NaCl, 5mM DTT, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Recombinant human HSP60 protein

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Description

Heat shock protein 60 (HSP60) is a mitochondrial chaperonin that is typically held responsible for the transportation and refolding of proteins from the cytoplasm into the mitochondrial matrix. HSP60 is the ~60kDa mammalian equivalent to GroEL of *E. coli*. Process of HSP60 is regulated by the cochaperonin HSP10, a single heptameric ring of ~10kD subunits that forms a complex with HSP60. HSP10 coordinates the ATPase activity of the HSP60 subunits to allow the release of bound polypeptide in a manner productive for folding. Recombinant human HSP60, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

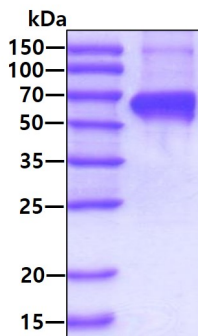
<MGSSHHHHHH SGLVPRGSH> MLRLPTVFRQ MRPVSRVLAP HLTRAYAKDV KFGADARALM LQGVDLLADA VAVTMGPKGR TVIIEQSWG S PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD VANNTNEEAG DGTTTATVLA RSIKEGF EK ISKGANPVEI RRGVMLAVDA VIAELKKQSK PVTTPPEEIAQ VATISANGDK EIGNIISDAM KKVGRKGVIT VKDGKTLNDE LEIIEGMKFD RGYISPYFIN TSKGQKCEFQ DAYVLLSEKK ISSIQSIVPA LEIANHRKP LVIIAEDVDG EALSTLVLNR LKVG LQVVAV KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL TLNLEDVOPH DLGKVGEVIV TKDDAMLLKG KGDKAQIEKR IQEIIQLDV TTSEYEKEKL NERLAKLSDG VAVLKVGGTS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA LDSLTPANED QKIGIEIKR TLKIPAMTIA KNAGVEGSLI VEKIMQSSSE VGYDAMAGDF VNMVEKGIID PTKVVRTALL DAAGVASLLT TAEVVVTEIP KEEKDPGMGA MGGMGGMGG GMF

General References

Cheng MY., et al. (1990), *Nature*. 348: 455- 458
 Ghosh JC., et al. (2008), *J Biol Chem*. Feb 22; 283(8):5188-94

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.