

**HSP60, 27-573aa**

**Cat.NO.: TP02524**

3th Edition

**Synonyms:**60 kDa heat shock protein, mitochondrial, CPN60, GROEL, HLD4, HSP-60, HSP60, HSP65, HuCHA60, SPG13.

**Description:**HSP60 is a mitochondrial chaperonin that is typically held responsible for the transportation and refolding of proteins from the cytoplasm into the mitochondrial matrix. In addition to its role as a heat shock protein, HSP60 functions as a chaperonin to assist in folding linear amino acid chains into their respective three-dimensional structure. Through the extensive study of groEL, HSP60's bacterial homolog, HSP60 has been deemed essential in the synthesis and transportation of essential mitochondrial proteins from the cell's cytoplasm into the mitochondrial matrix. Recombinant human HSP60 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol.

**Molecular Weight:**60 kDa (572aa)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSHMAKDVKFGADARALMLQGVDLLADAVAVTMGPKGRTVIIQSWGSPKVTK  
DGVTVAKSIDLKDKYKNIGAKLVQDVANNTNEEAGDGTATVLAARSIAKEGFEKISKGANPVEIRRGVMLAVDAVIA  
ELKKQSKPVTTPEEIAQVATISANGDKEIGNIISDAMKKVGRKGVITVKDGKTLNDELEIIEGMKFDRGYISPYFINTSK  
GQKCEFQDAYVLLSEKKISSIQSIVPALEIANHRKPLVIAEDVDGEALSTLVNRLKVLQVAVKAPGFGDNRKNQ  
LKDMAIATGGAVFGEEGLTLNLEDVQPHDLGKVGEVIVTKDDAMLLKGKGDKAQIEKRIQEIIEQLDVTTSEYEKEKL  
NERLAKLSDGVAVLKVGGTSDVEVNEKKDRVTDALNATRAAVEEGIVLGGGCALLRCIPALDSLTPANEDQKIGIEIK  
RTLKIPAMTIAKNAGVEGSLIVEKIMQSSSEVGYDAMAGDFVNMVEKGIIDPTKVVRTALLDAAGVASLLTTAEVVVT  
EIPKEEKDPGMGAMGGMGGGMGGGMF

**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.