

Recombinant Human GroEL (Hsp60)

ORDERING INFORMATION

Catalog Number	Size
11100P-5	5ug
11100P-20	20ug
11100P-1000	1000ug

Formulation: Sterile-filtered colorless solution contains 25mM Tris-HCl, pH 7.5, 100mM NaCl, 5mM DTT, and 10% glycerol. Purified by proprietary chromatographic techniques.

BACKGROUND

Hsp60 is a mitochondrial chaperonin responsible for transportation and refolding of proteins from the cytoplasm directly into the mitochondrial matrix. Hsp60 is regulated by the Hsp10 co-chaperonin. Hsp10 coordinates the ATPase activity of the Hsp60 subunits in order to allow the release of bound polypeptide in a manner that is productive for its correct folding.

DESCRIPTION

Recombinant Human GroEL (Hsp60) produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 553 amino acids with a molecular weight of 63kDa.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 95% as determined by SDS-PAGE and RP-HPLC.

Accession number: P10809

Amino Acid Sequence:

MGSSHHHHHH SSSLVPRGSH MLRLPTVFRQ
MRPVSRVLAP HLTRAYAKDV
KFGADARALMLQGVDLLADA VAVTMGPKGR
TVIIQSWGS PKVTKDGVTV AKSIDLKDKY
KNIGAKLVQDVANNTNEEAG DGTATTATVLA
RSIAKEGF EK ISKGANPVEI RRGVMLAVDA
VIAELKKQSKPVTTPEEIAQ VATISANGDK
EIGNIISDAM KKVGRKGVIT VKDGKTLNDE
LEIIEGMKFD RGYISPYFIN TSKGQKCEFQ
DAYVLLSEKK ISSIQSIVPA LEIANAHRKP
LVIIAEDVDG EALSTLVLNR LKVGLQVVAV
KAPFGDNRK NQLKDMAIAT GGAVFGEEGL
TLNLEDVQPH DLGKVGEVIV TKDDAMLLKG
KGDKAQIEKR IQEIIQLDV TTSEYEKEKL
NERLAKLSDG VAVLKVGGTS DVEVNEKKDR
VTDALNATRA AVEEGIVLGG GCALLRCIPA
LDSLTPANED QKIGIEIIR TLKIPAMTIA
KNAGVEGSLI VEKIMQSSSE VGYDAMAGDF
VNMVEKGIID PTKVVRTALL DAAGVASLLT
TAEVVTEIP KEEKDPGMGA MGGMGGGMGG
GMF

STORAGE AND STABILITY

Store at 4°C if entire vial will be used within 2-4 weeks. Store at or below -20°C for longer periods of time. For long term storage, addition of a carrier protein (0.1% HSA or BSA) is recommended.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.