Recombinant Human Heat Shock 60kDa Protein 1 (Chaperonin)

Cat. No. HSPD1-06H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Chaperonin 60 produced in*E. coli*has a molecular mass of approximately 60 KDa.
Species	Human
Source	E.coli
Description	Chaperonin 60(GroEL) and chaperonin 10(GroES) belong to the ubiquitous family of heat-shock molecular chaperones found in prokaryotes and in eukaryotic organelles. The chaperonins assist the folding of nascent, organelle-imported or stress-destabilized polypeptides. In vitro, purified GroEL together with purified GroES in the presence of Mg- ATP facilitate refolding and reactivation of denatured proteins. Chaperonin 60(GroEL) is expressed in*E. coli.*
Purity	>95% as determined by SDS-PAGE.
Storagee buffer	Liquid. In Tris-HCl Buffer (pH 7.4).
Process	caspase activation, protein folding, response to unfolded protein

GENE INFORMATION

Gene Name	HSPD1

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Synonyms	CPN60; GROEL; HSP-60; HSP60; HSP65; Hsp60; HuCHA60; SPG13; chaperonin; 60 kDa chaperonin; 60 kDa heat shock protein; mitochondrial precursor; Heat shock protein 60; Mitochondrial matrix protein P1; P60 lymphocyte protein; heat shock 60kD protein 1 (chaperonin); heat shock protein 65; short heat shock protein 60 Hsp60s1; spastic paraplegia 13 (autosomal dominant)
Gene ID	3329
mRNA Refseq	NM_002156.4
Protein Refseq	NP_002147.2
MIM	118190
UniProt ID	P10809
Chromosome Location	2q33.1
Pathway	Prion disease, Type I diabetes mellitus
Function	ATP binding, chaperone binding, unfold protein binding

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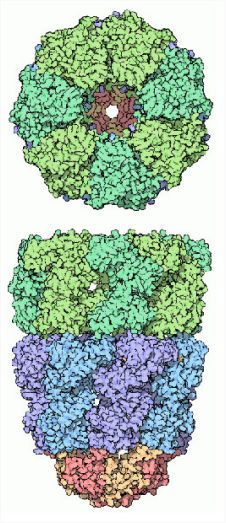
A chaperonin called GroEL-GroES complex (from Escherichia coli) (PDB code=1aon). Two rings of 7x2GroEL proteins (shown in blue and green) with a cap (just on one side) of GroES proteins (red and yellow). Unfolded proteins enter that cavity (which is protein sized) to be protected during folding.



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