

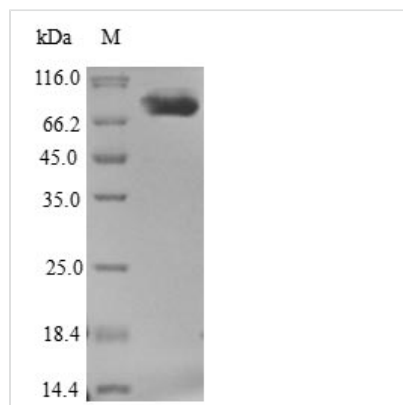


Recombinant Escherichia coli Chaperone protein HtpG (htpG)

Product Code	CSB-EP358897ENV
Relevance	Molecular chaperone. Has ATPase activity.
Abbreviation	Recombinant E.coli htpG protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P0A6Z3
Alias	Heat shock protein C62.5 Heat shock protein HtpG High temperature protein G
Product Type	Recombinant Protein
Immunogen Species	Escherichia coli (strain K12)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MKGQETRQGFQSEVKQLLHLMHSLYSNKEIFLRELISNASDAADKLRFRALSNP DLYEGDGELRVRVSFDKDKRTLITSDNGVGMTRDEVIDHLGTIAKSGTKSFLES LGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGWVWESAGEG EYTVADITKEDRGTEITLHLREGEDEFLLDDWRVRSISKYS DHIALPVEIEKREEK DGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVE GKQEYTSLLYIP SQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFV RGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFW QQFGLVLKEGPAEDFANQEAIKLLRFASHTDSSAQTVSLEDYVSRMKEGQE KIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTFEDGKPFQSV SKVDESLEKLADDEVDESAKEAEKALTPFIDRVKALLGERVKDVRRLTHRLTDTPAI VSTDADDEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSE WVELLLDQALLAERGTLEDPNLFIRRMNQLLVS
Research Area	others
Source	E.coli
Target Names	htpG
Protein Names	Recommended name: Chaperone protein htpG Alternative name(s): Heat shock protein C62.5 Heat shock protein htpG High temperature protein G
Expression Region	1-624aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	75.4kDa
Protein Length	Full Length



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The expression of the recombinant Escherichia coli (strain K12) htpG protein involves the construction of a plasmid encoding the Escherichia coli (strain K12) htpG protein (1-624aa). This resulting plasmid is introduced into e.coli cells. Positive e.coli cells are selected and cultured for the protein expression. The protein is fused with a N-terminal 6xHis tag. After that, cultured cells are lysed. The subsequent step includes purifying the recombinant Escherichia coli (strain K12) htpG protein through affinity purification from the cell lysate and assessing the purity of the protein via SDS-PAGE. The purity of the recombinant htpG protein is greater than 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.