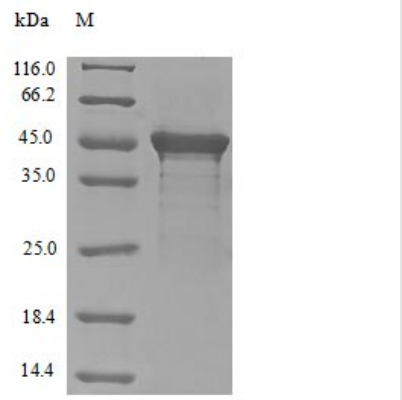
Recombinant Human Eukaryotic translation initiation factor 4 gamma 1 (EIF4G1), partial

Product Code	CSB-EP007568HUb9
Relevance	Component of the protein complex eIF4F, which is involved in the recognition of the mRNA cap, ATP-dependent unwinding of 5'-terminal secondary structure and recruitment of mRNA to the ribosome.
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.	Q04637
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	IEEYLHLNDMKEAVQCVQELASPSLLFIFVRHGVESTLERSAIAREHMGQLLHQ LLCAGHLSTAQYYQGLYEILELAEDMEIDIPHVWLYLAELVTPILQEGGVPMGEL FREITKPLRPLGKAASLLLEILGLLCKSMGPKKVGTLWREAGLSWKEFLPEGQD IGAFVAEQKVEYTLGEESEAPGQRALPSEELNRQLEKLLKEGSSNQRVFDWIE ANLSEQQIVSNTLVRALMTAVCYSAIIFETPLRVDVAVLKARAKLLQKYLCDEQK ELQALYALQALVVTLEQPPNLLRMFFDALYDEDVVKEDAFYSWESSKDPAEQ QGKGVALKSVTAFFKWLREAEEESDHN
Lead Time	3-7 business days
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Gene Names	EIF4G1
Protein Names	p220
Expression Region	1250-1599aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-B2M-JD-tagged and C-terminal Myc-tagged
Mol. Weight	46.6 kDa
Protein Description	Partial
Image	



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

Description

The Human EIF4G1 protein's gene (1250-1599aa) is inserted into a plasmid vector, forming recombinant plasmid, which is introduced into e.coli cells. e.coli cells surviving in the presence of a specific antibiotic are selected and then cultured under conditions promoting the expression of the gene of interest. The protein features a N-terminal 10xHis-B2M-JD tag and C-terminal Myc tag fusion. After expression, the recombinant Human EIF4G1 protein is isolated and purified from the cell lysate through affinity purification. Denaturing SDS-PAGE is utilized to resolve the resulting recombinant protein, revealing a purity exceeding 85%.

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.