

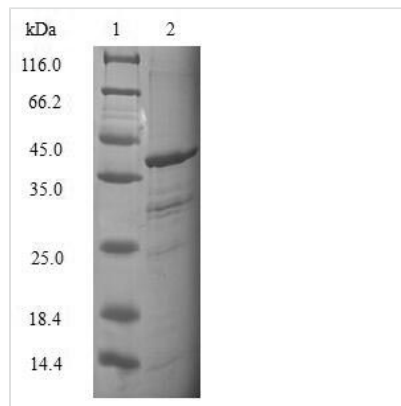


Recombinant Human Elongin-B (ELOB)

Product Code	CSB-EP620878HU
Relevance	SIII, also known as elongin, is a general transcription elongation factor that increases the RNA polymerase II transcription elongation past template-encoded arresting sites. Subunit A is transcriptionally active and its transcription activity is strongly enhanced by binding to the dimeric complex of the SIII regulatory subunits B and C (elongin BC complex). The elongin BC complex seems to be involved as an adapter protein in the proteasomal degradation of target proteins via different E3 ubiquitin ligase complexes, including the von Hippel-Lindau ubiquitination complex CBC(VHL). By binding to BC-box motifs it seems to link target recruitment subunits, like VHL and members of the SOCS box family, to Cullin/RBX1 modules that activate E2 ubiquitination enzymes.
Abbreviation	ELOB
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.	Q15370
Alias	Elongin 18 kDa subunit Elongin-B
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MDVFLMIRRHKTTIFTDAKESSTVFELKRIVEGILKRPPDEQRLYKDDQLLDDGK TLGECGFTSQTPAPATVGLAFRADDTFEALCIEPFSSPELPDVMKPDQDS GSSANEQAVQ
Lead Time	3-7 business days
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Gene Names	ELOB
Protein Names	Recommended name: Transcription elongation factor B polypeptide 2 Alternative name(s): Elongin 18 kDa subunit Elongin-B Short name= EloB RNA polymerase II transcription factor SIII subunit B SIII p18
Expression Region	1-118aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	40.1kDa
Protein Description	Full Length



Image



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

Description

The expression region of this recombinant Human ELOB covers amino acids 1-118. The expected molecular weight for the ELOB protein is calculated to be 40.1 kDa. This protein is generated in a e.coli-based system. Fusion of the N-terminal GST tag into the ELOB encoding gene fragment was conducted, allowing for easier detection and purification of the ELOB protein in subsequent stages.

The human Elongin B (ELOB) protein is a subunit of the Elongin complex, critical for RNA polymerase II transcription elongation. ELOB, along with Elongin C and Elongin A, forms a scaffold that interacts with transcription factors and regulates gene expression. In cancer research, ELOB is implicated in tumor development and progression, acting as a potential prognostic marker. Studying ELOB provides insights into transcriptional control mechanisms. Additionally, ELOB plays a role in viral replication, making it relevant in virology. Investigating ELOB's diverse functions enhances our understanding of transcriptional regulation, offering potential applications in cancer diagnostics, therapeutics, and antiviral strategies.

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.