Recombinant EIFCL protein (His tag)

Catalog Number	550050
Species	Human
Expression System	E. coli
Accession	B5ME19
Molecular Weight	Predictes a molecular mass of 15.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	49-161
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 49-161 aa (B5ME19) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human EIF3CL Protein Fragment (aa 49-161) - A highly stable and soluble fragment of the eukaryotic translation initiation factor 3 subunit C-like protein, specifically engineered for structural and biochemical research applications in protein synthesis studies. The full-length eukaryotic translation initiation factor 3 subunit C-like protein (EIF3CL) is an essential component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which plays a critical role in multiple steps of protein synthesis initiation. This complex associates with the 40S ribosome and facilitates the recruitment of various initiation factors to form the 43S pre-initiation complex. The eIF-3 complex is responsible for stimulating mRNA recruitment to the ribosome and scanning for AUG recognition, while also participating in disassembly and recycling of post-termination ribosomal complexes. Importantly, it specifically targets and regulates translation of mRNAs involved in key cellular processes including cell cycling, differentiation, and apoptosis, using distinct RNA stem-loop binding modes for either translational activation or repression. The protein is localized in the cytoplasm, where it performs its essential functions in translation regulation.