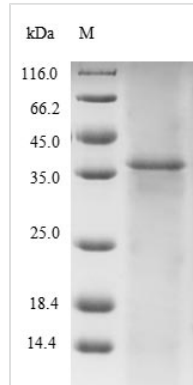




Recombinant Human Titin (TTN), partial

Product Code	CSB-EP025267HU
Relevance	Key component in the assembly and functioning of vertebrate striated muscles. By providing connections at the level of individual microfilaments, it contributes to the fine balance of forces between the two halves of the sarcomere. The size and extensibility of the cross-links are the main determinants of sarcomere extensibility properties of muscle. In non-muscle cells, seems to play a role in chromosome condensation and chromosome segregation during mitosis. Might link the lamina network to chromatin or nuclear actin, or both during interphase.
Abbreviation	Recombinant Human TTN protein, partial
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.	Q8WZ42
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	RCEEGKDNWIRCNMKLVPCLTYKVTGLEKGNKYLYRVSAENKAGVSDPSEILG PLTADDAFVEPTMDLSAFKDGLEVIVPNPITILVPSTGYPRPTATWCFGDKVLE TGDRVKMKTL SAYAELVISPSERSDKGIYTLKLENRVKTISGEIDVNVIA RPSAP KELKFGDITKDSVHLTWEPPDDDGGSPLTGYVVEKREVS RKTWTKVMD FVTD LEFTVPDLVQGKEYL FKVCARNKCGPGEPAYVDEPVNMSTPATVPDPPENVK WRDRTANSIFLTWDPPKNDGG
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	TTN
Protein Names	Connectin Rhabdomyosarcoma antigen MU-RMS-40.14
Expression Region	14257-14543aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	36.9 kDa
Protein Length	Partial
Image	



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

Description

The recombinant Human TTN protein is produced by constructing the recombinant plasmid encoding the Human TTN protein (14257-14543aa), transforming recombinant plasmid into e.coli cells, screening the positive e.coli cells and culturing them, and inducing the protein expression. The protein is equipped with a N-terminal 10xHis tag and C-terminal Myc tag. Following expression, the recombinant TTN protein is isolated and purified from the cell lysate using affinity purification. Denaturing SDS-PAGE is then employed to resolve the resulting recombinant Human TTN protein. Its purity is greater than 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.

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.