

Titin (TTN) Recombinant Protein | TTN recombinant protein

Recombinant Human Titin (TTN), partial

CATALOG # AAA243736	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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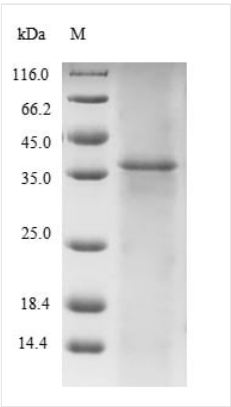
PRODUCT SYNONYMS

Titin (TTN); Recombinant Human Titin (TTN); partial; Connectin Rhabdomyosarcoma antigen MU-RMS-40.14; TTN recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Specificity	Isoforms 3, 7 and 8 are expressed in cardiac muscle. Isoform 4 is expressed in vertebrate skeletal muscle. Isoform 6 is expressed in skeletal muscle (at protein level).
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Liquid or Lyophilized powder If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, p
Sequence Positions	14257-14543aa; Partial
Sequence	RCEEGKDNWI RCNMKLVPPEL TYKVTGLEKG NKLYRVSAE NKAGVSDPSE ILGPLTADDA FVEPTMDLSA FKDGLLEVIVP NPITILVPST GYPRPTATWC FGDKVLETGD RVKMKTLSAY AELVISPSER SDKGIYTLKL ENRVKTISGE IDVNVIARPS APKELKFGDI TKDSVHLTWE PPDDGGGSPL TGYVVEKREV SRKTWTKVMD FVTDLEFTVP DLVQGKEYLF KVCARNKCGP GEPAYVDEPV NMSTPATVPD PPENVKWRDR TANSIFLTWD PPKNDGG
Species	Human
Tag	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Expression System	E.coli
Protein Families	G-protein coupled receptor 1 family, Atypical chemokine receptor subfamily
Subcellular Location	Cell membrane, Multi-pass membrane protein, Cytoplasm, perinuclear region, Early endosome, Recycling endosome
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 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and 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 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

IMAGES



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

ADDITIONAL INFORMATION

Related Product Information for TTN recombinant protein	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. Function: 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.
Product Categories/Family for TTN recombinant protein	Epigenetics and Nuclear Signaling
References	"Series of exon-skipping events in the elastic spring region of titin as the structural basis for myofibrillar elastic diversity." Freiburg A., Trombitas K., Hell W., Cazorla O., Fougerousse F., Centner T., Kolmerer B., Witt C., Beckmann J.S., Gregorio C.C., Granzier H., Labeit S.Circ. Res. 86:1114-1121(2000)

NCBI AND UNIPROT INFORMATION

NCBI GI #	384872704
NCBI GeneID	7273
UniProt Accession #	Q8WZ42
Molecular Weight	36.9kDa
NCBI Official Full Name	Titin
NCBI Official Synonym Full Names	titin
NCBI Official Symbol	TTN
NCBI Official Synonym Symbols	TMD; CMH9; CMD1G; CMPD4; EOMFC; HMERF; MYLK5; SALMY; LGMD2J; LGMDR10
NCBI Protein Information	titin
UniProt Protein Name	Titin

UniProt Gene Name	TTN
UniProt Entry Name	TITIN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/ttn-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/243736>