

Titin Protein, Human, Recombinant (Isoform 6, His)

General Information

Synonyms:	Rhabdomyosarcoma antigen MU-RMS-40.14;TTN;Titin;Connectin
Protein Construction:	5398-5604 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q8WZ42-6
Molecular Weight:	26.5 kDa (predicted)
AA Sequence:	VFKCSVIGIPTPEVKWYKEYMCIEPDNIKYVISEEKGSHLTKIRNVCLSDSATYRCRAVNCVGEAICRGFLTMGDSEIFAVIAKSKVTLSSLMEELVLKSNYTDSEFFEFQVVEGPPRFIKGISDCYAPIGTAAYFQCLVRGSPRPTVYWKDGKLVQGRFRFTVEESGTGFHNLFITSLVKSDEGEYRCVATNKSMAESFAALTLT

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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