

Troponin T, fast skeletal muscle (Tnnt3) Recombinant Protein | Tnnt3 recombinant protein

Recombinant Bovine Troponin T, fast skeletal muscle (Tnnt3)

CATALOG # AAA117149	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Troponin T; fast skeletal muscle (Tnnt3); Recombinant Bovine Troponin T; Tnnt3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-271aa; Full Length of Mature Protein
Sequence	SDEEVHVEE EYEEEEAAQE EAPPPAEVP EVHEEVHEVH EPEEVQEEK PRPRLTAPKI PEGEKVDFDD IQKKRQNKDL MELQALIDSH FEARKKEEEE LVALKERIEK RRAERAEQQR IRAEKERERQ NRLAEKARR EEEDAKRRAE DDLKKKKALS SMGANYSSYL AKADQKRGKK QTAREMKKKV LAERRKPLNI DHLSEDKLRD KAKELWDTLY QLETDFEYG EKLKRQKYDI TNLRSRIDQA QKHSKKAGTA PKGKVGGRWK
Sequence Length	271
Species	Bovine
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for Tnnt3 recombinant protein	The binding of Ca(2+) to the trimeric troponin complex initiates the process of muscle contraction. Increased Ca(2+) concentrations produce a conformational change in the troponin complex that is transmitted to tropomyosin dimers situated along actin filaments. The altered conformation permits increased interaction between a myosin head and an actin filament which, ultimately, produces a muscle contraction. The troponin complex has protein subunits C, I, and T. Subunit C binds Ca(2+) and subunit I binds to actin and inhibits actin-myosin interaction. Subunit T binds the troponin complex to the tropomyosin complex and is also required for Ca(2+)-mediated activation of actomyosin ATPase activity. There are 3 different troponin T genes that encode tissue-specific isoforms of subunit T for fast skeletal-, slow skeletal-, and cardiac-muscle. This gene encodes fast skeletal troponin T protein; also known as troponin T type 3. Alternative splicing results in multiple transcript variants encoding additional distinct troponin T type 3 isoforms. A developmentally regulated switch between fetal neonatal and adult troponin T type 3 isoforms occurs. Additional splice variants have been described but their biological validity has not been established. Mutations in this gene may cause distal arthrogryposis multiplex congenita type 2B (DA2B).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	75054140
NCBI GeneID	282096
UniProt Accession #	Q8MKI3
Molecular Weight	36.0 kDa
NCBI Official Full Name	Troponin T, fast skeletal muscle
NCBI Official Synonym Full Names	troponin T3, fast skeletal type
NCBI Official Symbol	TNNT3
NCBI Protein Information	troponin T, fast skeletal muscle
UniProt Protein Name	Troponin T, fast skeletal muscle
UniProt Gene Name	Tnnt3
UniProt Synonym Gene Names	TnTf

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.

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Online datasheet: <https://stage.aaabiotech.com/tnnt3-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/117149>