

Troponin T Type 1, Slow Skeletal (TNNT1) Recombinant Protein | TNNT1 recombinant protein

Recombinant Troponin T Type 1, Slow Skeletal (TNNT1)

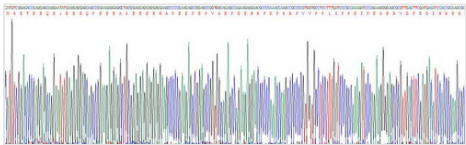
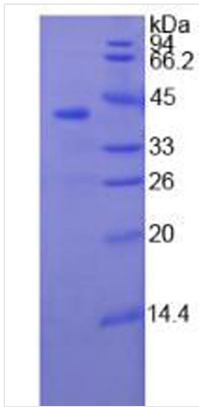
CATALOG # AAA20264	HOST E.coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS SDS-Page, Western Blot
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PRODUCT SYNONYMS

Troponin T Type 1; Slow Skeletal (TNNT1); Recombinant Troponin T Type 1; TNNT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	> 90%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose
Concentration	Original Concentration: 350ug/mL (varies by lot)
Applicable Applications for TNNT1 recombinant protein	Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)
Application Notes	(May be suitable for use in other assays to be determined by the end user.)
Source	Prokaryotic expression
Residues	Met1~Gly259
Tags	N-terminal His Tag
Subcellular Location	Secreted
Traits	Freeze-dried powder
Predicted isoelectric point	5.7
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do ot vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



Gene Sequencing (Extract)

SDS-PAGE

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MSDTEEQEYE EEQPEEEAAE EEEEEPEEPE PVAEPEEERP KPSRPVVPPL
IPPKIPEGER VDFDDIHRKR MEKDLLELQT LIDVHFEQRK KEEELVALK
ERIERRRSER AEQQRFRTEK ERERQAKLAE EKMRKEEEEA KKRAEDDAKK
KKVLSNMGAH FGGYLVKAEQ KRGKQQTGRE MKVRILSERK KPLDIDYNGE
EQLREKAQEL SDWIHQLESE KFDLMAKLKQ QKYEINVLYN RISHAQKFRK
GAGKGRVGG
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Sequence Information

NCBI AND UNIPROT INFORMATION

NCBI GI #	187173290
NCBI GeneID	7138
NCBI Accession #	NP_001119604.1
NCBI GenBank Nucleotide #	NM_001126132.1
UniProt Accession #	P13805; O95472; Q16061; Q5U0E1
Molecular Weight	Predicted Molecular Mass: 34.2kDa Accurate Molecular Mass: 40kDa as determined by SDS-PAGE reducing conditions
NCBI Official Full Name	troponin T, slow skeletal muscle isoform b
NCBI Official Synonym Full Names	troponin T type 1 (skeletal, slow)
NCBI Official Symbol	TNNT1
NCBI Official Synonym Symbols	ANM; TNT; NEM5; STNT; TNTS
NCBI Protein Information	troponin T, slow skeletal muscle; nemaline myopathy type 5; troponin-T1, skeletal, slow; slow skeletal muscle troponin T
UniProt Protein Name	Troponin T, slow skeletal muscle
UniProt Gene Name	TNNT1
UniProt Synonym Gene Names	TNT; TnTs; sTnT
UniProt Entry Name	TNNT1_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.