

Recombinant Human troponin I type 1 (skeletal, slow), His-tagged

Cat. No. TNNI1-352H Lot. No. (See product label)

SPECIFICATION

Product Overview	TNNI1, 1-187aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-187 a.a.
Description	Troponin I, slow skeletal muscle, also known as TNNI1, belongs to the troponin I family. TNNI1 is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. Recombinant human TNNI1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol
Molecular Mass	23.8 kDa (207aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MPEVERKPKI TASRLLLLKS LMLAKAKECW EQEHEEREAE KVRylaERIP TLQTRGLSLS ALQDLCRELH AKVEVVDEER YDIEAKCLHN TREIKDLKLVMDLRGKFKR PPLRRVRVSA DAMLRALLGS KHKVSMDLRA NLKSVKkedT EKERPVEVGD WRKNVEAMSG MEGRKKMFDA AKSPTSQ

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Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	TNNI1 troponin I type 1 (skeletal, slow) [Homo sapiens]
Official Symbol	TNNI1
Synonyms	TNNI1; troponin I type 1 (skeletal, slow); troponin I, skeletal, slow; troponin I, slow skeletal muscle; troponin I, slow-twitch isoform; TNN1; SSTNI; DKFZp451O223;
Gene ID	7135
mRNA Refseq	NM_003281
Protein Refseq	NP_003272
MIM	191042
UniProt ID	P19237
Chromosome Location	1q31.3
Pathway	Muscle contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem;

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Function

actin binding; tropomyosin binding;

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