



# Recombinant Sheep Troponin T, cardiac muscle (TNNT2)

<b>Product Code</b>	CSB-EP024016SH
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P50751
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Ovis aries (Sheep)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SDVEETVDE YEEQEEAAVE EHEESVEEEA GGEARQGGGA SAAEDGEEEE GREAEDGPVE ESKPQAPGPF MPNLVPPKIP DGERVDFDDI HRKRMEKDLN ELQTLIEAHF ENRKKEEEEL VSLKDRIEKR RAERAEQQRI RTEREKERQA RLAEERARRE EEESRRKAED EARKKKALSN MMHFGGYIQK AQAERKSGKR QTEREKKKKI LAERRKVLAI DHLNEDQLRE KARELWQSIY DLEAEKFDLQ EKFKQQKYEI NVLRNRVNDN QKVSCTRGA KVTGRWK
<b>Source</b>	E.coli
<b>Target Names</b>	TNNT2
<b>Protein Names</b>	Recommended name: Troponin T, cardiac muscle Short name= TnTc Alternative name(s): Cardiac muscle troponin T Short name= cTnT
<b>Expression Region</b>	2-287
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined.
<b>Reconstitution</b>	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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	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°C/-80°C. The shelf life



of lyophilized form is 12 months at -20°C/-80°C.