



Recombinant Bovine Troponin I, cardiac muscle (TNNI3)

Product Code	CSB-YP024013BO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P08057
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	>85% (SDS-PAGE)
Sequence	<p>ADRSGGSTAGDTPAPPPVRRRSSANYRAYATEPHAKKSKISASRKLQLKTL MLQIAKQ ELEREAEEERRGEKGRALSTRCQPLELAGLGFELQDLRQLHARVDKVDDEER YDVEAKVT KNITEIADLNQKIFDLRGKFKRPTLRRVRISADAMMQALLGARAKETLDLRAHLK QVKKE DTEKENREVGDWKRNIDALSGMEGRKKKFEG</p>
Source	Yeast
Target Names	TNNI3
Protein Names	Recommended name: Troponin I, cardiac muscle Alternative name(s): Cardiac troponin I
Expression Region	2-212
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	<p>Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).</p>
Reconstitution	<p>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.</p>
Shelf Life	<p>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</p>



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