Recombinant Bovine Troponin I, cardiac muscle (TNNI3)

Product Code	CSB-MP024013BO
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	ADRSGGSTAGDTVPAPPPVRRRSSANYRAYATEPHAKKKSKISASRKLQLKTL MLQIAKQ ELEREAEERRGEKGRALSTRCQPLELAGLGFAELQDLCRQLHARVDKVDEER YDVEAKVT KNITEIADLNQKIFDLRGKFKRPTLRRVRISADAMMQALLGARAKETLDLRAHLK QVKKE DTEKENREVGDWRKNIDALSGMEGRKKKFEG
Source	Mammalian cell
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	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).
Reconstitution	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.
Shelf Life	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.