



# Recombinant Horse Troponin I, cardiac muscle (TNNI3)

<b>Product Code</b>	CSB-BP719026HO
<b>Abbreviation</b>	TNNI3
<b>Storage</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.
<b>Uniprot No.</b>	Q5PYI0
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Equus caballus (Horse)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	ADQSGNAAP PPVRRRSSAN YRAYATEPHA KKKSKISASR KLQLKTLMLQ IAKQELEREA VERRGKGRA LSTRCQPLEL AGLGFEELQD LCRQLHARVD KVDEERYDVE AKVTKNITEI ADLNQKIFDL RGKFKRPTLR RVRISADAMM QALLGTRAKE TLDLRAHLKQ VKKEDTEKEN REVGDWRKNI DALSGMEGRK KKFEG
<b>Source</b>	Baculovirus
<b>Target Names</b>	TNNI3
<b>Protein Names</b>	Recommended name: Troponin I, cardiac muscle Alternative name(s): Cardiac troponin I
<b>Expression Region</b>	2-205
<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>	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).
<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.

### Shelf Life

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