

Recombinant Dog TNNI3 protein, His/T7-tagged

Cat. No. TNNI3-178D Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Dog TNNI3 fused with His/T7 tag was expressed in E. coli.
Species	Dog
Source	E.coli
Description	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.
Form	Lyophilized from PBS, pH 7.4, 5% trehalose, 0.01% sarcosyl
Molecular Mass	27.7 kDa
Purity	Greater than 95%
Storage	Store at +4 centigrade for up to 1 month, or aliquot and store at -80 centigrade for up to 12 months. Avoid repeat freeze-thaw cycles.

GENE INFORMATION

Gene Name	TNNI3 troponin I type 3 (cardiac) [<i>Canis lupus familiaris</i>]
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Official Symbol	TNNI3
Synonyms	TNNI3; troponin I type 3 (cardiac); troponin I, cardiac muscle; cardiac troponin I;
Gene ID	403566
mRNA Refseq	NM_001003041
Protein Refseq	NP_001003041
MIM	
UniProt ID	Q8MKD5
Chromosome Location	chromosome: 1
Pathway	Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem; Muscle contraction, organism-specific biosystem;

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