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## Product Data Sheet

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Product Name: TNNI3 Human, (1-210)  
 Cat. No.: GP24894  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Troponin I cardiac muscle; Cardiac troponin I; TNNI3; TNNC1; CMH7; RCM1; cTnI; CMD2A; MGC116817.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMADGSSD AAREPRPAPA PIRRRSSNYR AYATEPHAKK KSKISASRKL QLKTL LLQIA KQELEREA EERRG EKGRALS TRCQPLELAG LGFAELQDLC RQLHARVDKV DEERYDIEAK VTKNITEIAD LTQKIFDLRG KFKRPTLRRV RISADAMMQALLGARAKESL DLRAHLKQVK KEDTEKENRE VGDWRKNIDA LSGMEGRKKK FES		
Formulation	TNNI3 protein solution (0.25mg/ml) contains 30% glycerol, 20mM Tris-HCl buffer (pH 7.5), 0.1M NaCl, 0.1mMPPMSF & 1mM DTT.		

### Introduction

Troponin I (TnI), troponin T (TnT) and troponin C (TnC) form the troponin complex of the thin filaments of striated muscle. TnI acts as the inhibitory subunit by blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains 3 genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. The TNNI3 gene encodes the TnI-cardiac protein and is expressed solely in cardiac muscle tissues. Mutations in the TNNI3 gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

TNNI3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chain containing 233 amino acids (1-210 a.a) and having a molecular mass of 26.4 kDa. TNNI3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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