
Product Data Sheet

Product Name: TNNI3 Human, His
Cat. No.: GP24893
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.		
Formulation	TNNI3 protein solution in PBS and 25mM arginine.		

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 exclusively expressed in cardiac muscle tissues. Mutations in the TNNI3 gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).

Stability

TNNI3 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Background

Recombinant Human TNNI3 protein produced in E.Coli is a full length protein containing a total of 260 amino acids and fused to a 6 His Tag at C-terminus, migrating as a 27kDa band on SDS-PAGE. Purified by proprietary chromatographic technique.

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

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