
Product Data Sheet

Product Name: TNNI2 Human, His

Cat. No.: GP24853

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	AMCD2B; DA2B; FSSV; fsTnl; Troponin I; fast skeletal muscle; Troponin I; fast-twitch isoform.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGDEEKRNRA ITARRQHLKS VMLQIAATEL EKEESRREAE KQNYLAEHCP PLHIPGSMSE VQELCKQLHA KIDAAEEEEKY DMEVRVQKTS KELEDMNQKL FDLRGKFKRP PLRRVRMSAD AMLKALLGSK HKVCMDLRAN LKQVKKEDTE KERDLRDVGD WRKNIEEKSG MEGRKKMFES ES.		
Formulation	The TNNI2 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea, 20% glycerol and 0.2M NaCl.		

Introduction

Troponin I, fast skeletal muscle (TNNI2), belongs to the troponin I gene family, and a part of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. TNNI2 is also suppresses tumor growth in human ovarian carcinoma. Mutations in TNNI2 cause myopathy and distal arthrogryposis type 2B.

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

TNNI2 Human Recombinant produced in E. coli is a single polypeptide chain containing

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

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202 amino acids (1-182) and having a molecular mass of 23.5 kDa. TNNI2 is fused to 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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