
Product Data Sheet

Product Name: TNNI1 Human
 Cat. No.: GP24852
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DKFZp451O223; SSTNI; TNN1; Troponin I; slow skeletal muscle ;Troponin I; slow-twitch isoform.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MPEVERKPKI TASRKLLLS LMLAKAKECW EQEHEEREAE KVRylaERIP TLQTRGLSLS ALQDLCRELH AKVEVVDEER YDIEAKCLHN TREIKDLKLVMDLRGKFKR PPLRRVRVSA DAMLRALLGS KHKVSMDLRA NLKSVKKEDT EKERPVEVGD WRKNVEAMSG MEGRKKMFDA AKSPTSQ		
Formulation	TNNI1 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

Introduction

Troponin I, (TNNI1) is a member of the troponin I family. Troponin complex has 3 subunits, TNNI1 known as the inhibitory Subunit which prevents the actin-myosin interactions and thus mediating striated muscle relaxation. TNNI1 combines with tropomyosin and regulates calcium sensitivity of striated muscles by structural modifications in actin-myosin complexes.

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

TNNI1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 207 amino acids (1-187 a.a.) and having a molecular mass of 23.8kDa. TNNI1 is fused to a 20 amino acid His-tag at N-terminus & purified by

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

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proprietary chromatographic techniques.

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