

Datasheet for 009-001-U22S**Troponin1 protein-HIS Epitope****Overview**

Description:	Troponin1 recombinant protein-HIS Epitope - 009-001-U22S
Item No.:	009-001-U22S
Size:	20 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Troponin1 is a member of the tropomyosin family and regulates the calcium sensitivity of the myofibril contractile apparatus of striated muscles. Troponin1 is part of a complex with troponin T and troponin C in which Troponin1 acts as an inhibitory subunit that blocks actin-myosin interactions and thereby mediates striated muscle relaxation (1). Troponin1 is expressed in cardiac and skeletal muscle during early development but is restricted to slow-twitch skeletal muscle fibers in adults. The Troponin1 protein prevents muscle contraction by inhibiting calcium-mediated conformational changes in actin-myosin complexes (2). Troponin1 Protein is ideal for investigators involved in Signaling Proteins, Microtubule/Actin Associated Proteins, and Cardiovascular Disease research.
Synonyms:	TNNI1, DKFZp451O223, SSTNI, TNN1, Troponin I, slow skeletal muscle, Troponin I, slow-twitch isoform
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	TNNI1
Purity/Specificity:	Recombinant full-length human Troponin1 protein was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >75% by densitometry.
Relevant Links:	• NCBI - NM_003281

Application Details

Application Note:	Troponin1 Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. Troponin1 Protein is suitable for use in Western Blot. Expect a band approximately ~24kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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