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TNNI2 Human

Catalog #:PRPS-348

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Description: Skeletal isoforms of Troponin I were sμggested to be used as markers of acute and chronic skeletal muscle injuries. In skeletal muscles Troponin I is presented by two forms, slow (21.6 kDa) and fast (21.2 kDa) skeletal. The protein (Fast Skeletal Troponin I) migrates on SDS-PAGE to approximately 26.5kDa.

Synonyms: Troponin I fast skeletal muscle, Troponin I fast-twitch isoform, TNNI2, DA2B, FSSV, fsTnI, AMCD2B.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colourless liquid formualtion.

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:
The protein solution contains 20mM Tris-HCl, 500mM NaCl and 10mM b-ME, pH 7.5.

Stability:
TNNI2 Human althoμgh stable at 10°C for 7 days, should be stored below -18°C.Please prevent freeze-thaw cycles.

Usage:
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Introduction:
TNNI2 is a fast-twitch skeletal muscle protein, belongs to the troponin I gene family, and is part of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, together with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. TNNI2 is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. Other than muscle tissues, TNNI2 is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a coactivator of estrogen receptor-related receptor alpha. Furthermore, TNNI2 suppresses tumor growth in human ovarian carcinoma. Mutations in the TNNI2 gene cause myopathy and distal arthrogryposis type 2B.

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