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Recombinant Human TNNI1 Protein, N-His

bs-105755P
Human
1-142/187
18.89 kDa
N-His
>90% as determined by SDS-PAGE.
AC
Lyophilized
Lyophilized from a solution in PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1%
Mannitol.
Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8°C for
frequent use. Store at -20 to -80°C for twelve months from the date of receipt.
Troponin proteins associate with tropomyosin and regulate the calcium sensitivity of the
myofibril contractile apparatus of striated muscles. Troponin I (TnI), along with troponin T
(TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin
filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions
and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes:
TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. The TnI-fast and TnI-slow
genes are expressed in fast-twitch and slow-twitch skeletal muscle fibers, respectively, while
the TnI-cardiac gene is expressed exclusively in cardiac muscle tissue. This gene encodes the
Troponin-I-skeletal-slow-twitch protein. This gene is expressed in cardiac and skeletal
muscle during early development but is restricted to slow-twitch skeletal muscle fibers in
adults. The encoded protein prevents muscle contraction by inhibiting calcium-mediated
conformational changes in actin-myosin complexes. [provided by RefSeq, Jul 2008].