

TNI Human

Description: Recombinant Human TNI produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 210 amino acids and having a molecular mass of 24,016 Dalton. The TNI is purified by proprietary chromatographic techniques.

Catalog #: PRPS-331

Synonyms: Troponin I cardiac muscle, Cardiac troponin I, TNNI3, TNNC1, CMH7, RCM1, cTnI, CMD2A, MGC116817.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless liquid formulation.

Amino Acid Sequence:

MADGSSDAAREPRPAPAPIRRRSSNYRAYATEPHAKKSKISASRKLQLKTLTLLQIAKQELEREAE
ERRGEKGRALSTRCPLELAGLGFAELQDLRCQLHARVDKVDEERYDIEAKVTKNITEIADLTQKI
FDLRGKFKRPTLRRVRISADAMMQALLGARAKESLDLRAHLKQVKKEDTEKENREVGDWKRNID
ALSGMEGRKKKFES.

Purity: Greater than 98.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

TNI solution containing 6M Urea 50mM Tris PH 8.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

Troponin I (TnI), troponin T (TnT) and troponin C (TnC) form the troponin complex of the thin filaments of striated muscle. TnI acts as the inhibitory subunit by blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains 3 genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. The TNNI3 gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in the TNNI3 gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).

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