

Recombinant Protein Technical Manual Recombinant Human Troponin C/TNNC1 Protein RPES4392

Product Data:

Product SKU: RPES4392 Size: 20μg

Species: Human Expression host: E. coli

Uniprot: NP 003271.1

Protein Information:

Molecular Mass: 18.4 kDa

AP Molecular Mass: 20 kDa

Tag:

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 150 mM NaCl, 10 mM Na2HPO4, pH 7.5

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: CMD1Z;CMH13;TN-C;TNC;TNNC

Immunogen Information:

Sequence: Met 1-Glu161

Background:

Troponin I, also known as TNNC1, is part of the troponin complex. This complex contains 3 subunits: troponin I (TnI), troponin T (TnT) and troponin C (TnC). Troponin I is the inhibitory subunit, blocking actin-myosin interactions and thereby mediating striated muscle relaxation. It binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place. Because of it myosin cannot bind actin in relaxed muscle. When calcium binds to the Troponin C it causes conformational changes which lead to dislocation of troponin I and finally tropomyosin leaves the binding site for myosin on actin leading to contraction of muscle.