

32-9550: Recombinant Human Troponin C/TN-C/TNNC1(N-6His)

Alternative Name : CMH7; TNNC1; TNNI3; Troponin I

Description

Source : E. coli;

Troponin I, also known as TNI, is a 24 kDa component of a protein complex on striated muscle thin filaments. Troponin is the central regulatory protein of striated muscle contraction. Tn consists of three components: Tn-I which is the inhibitor of actomyosin ATPase, Tn-T which contains the binding site for tropomyosin and Tn-C. The binding of calcium to Tn-C abolishes the inhibitory action of Tn on actin filaments. Troponin I inhibits the calcium-dependent muscle contraction mediated by Troponins C and T. The expression of cardiac Troponin I (TNNI3) is restricted to cardiac muscle, while TNNI1 and TNNI2 (encoded by distinct genes) are expressed in skeletal muscle. Mutations of cardiac Troponin I are associated with hereditary cardiomyopathy. Human cardiac Troponin I shares 93% amino acid sequence identity with mouse and rat cardiac Troponin I.

Product Info

Amount : 500 µg / 50 µg

Content : Supplied as a 0.2 µm filtered solution of 20mM Tris, 100mM NaCl, 1mM DTT, 10% glycerol, pH8.0.

Amino Acid : Recombinant Human slow skeletal and cardiac muscles is produced by our E.coli expression system and the target gene encoding Met1-Glu161 is expressed with a 6His tag at the N-terminus.