

TECHNICAL PRODUCT SUMMARY

Troponin Subunits

PROTEINS

Cat. No.	Description	Source	Purity
T4924	Troponin C (TnC)	Rabbit Skeletal Muscle	≥95%
T1431	Troponin I (TnI)	Recombinant	≥95%
T1532	Troponin T (TnT) - liquid	Recombinant	≥95%
T1531	Troponin I (TnI) - lyophilized	Recombinant	≥95%

ANTIBODIES

Antibodies to the Troponin Subunits are not available at this time.

Intended Use: All Products are for Research Use or Further Manufacture Only. Not for Use in Diagnostic Procedures.

α-Fetoprotein (AFP)

The troponin complex of cardiac and skeletal muscle is a group of contractile proteins composed of three non-identical subunits. Troponin C (TnC) is the calcium sensitive subunit and contains four Ca²⁺ binding sites. Troponin I (TnI), the inhibitory subunit, binds actin in the relaxed state, thereby preventing muscle contraction by inhibiting the ATPase activity of actomyosin. Troponin T (TnT) is involved in the attachment of the troponin complex to the thin filament, binding tropomyosin and actin.

Elevated serum levels of the cardiac isoforms of the troponin subunits are well-documented in myocardial infarction (MI). Evidence suggests that the subunits exist as the binary Troponin IC complex and as the complete Troponin ICT complex in the serum of MI patients. As such, immunoassays specific for cardiac isoforms must detect these complexes.

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