



Recombinant human cardiac troponin IC complex (DAG-WT1155)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant human cardiac troponin IC-complex is a single, non-glycosylated, polypeptide chain. The molar ratio on cTnI to cTnC is 1:1
Purity	> 90% as determined by SDS-PAGE
Conjugate	N/A
Applications	N/A
Molecular Weight	50 kDa
Format	Liquid
Concentration	Batch dependent - please inquire should you have specific requirements
Size	10 µg, 100 µg
Buffer	500mM NaCl, 20mM Tris-HCl, 4mM CaCl ₂ , 4mM MgCl ₂ and 60mM β-mercaptoethanol, pH 7.5.
Preservative	None
Storage	Store at -20°C. Avoid multiple freeze/thaw cycles.

BACKGROUND

Introduction	Troponin complex is a heteromeric protein playing an important role in the regulation of skeletal and cardiac muscle contraction. Troponin complex consists of three different subunits: troponin T (TnT), troponin I (TnI) and troponin C (TnC). Each subunit is responsible for a part of troponin
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complex function. TnT is a tropomyosin-binding subunit which regulates the interaction of troponin complex with thin filaments; TnI inhibits ATP-ase activity of acto-myosin; TnC is a Ca^{2+} - binding subunit, playing the main role in Ca^{2+} dependent regulation of muscle contraction.

Keywords	Cardiac marker; Troponin; Troponin complex; Troponin C; Troponin I; Troponin T
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GENE INFORMATION

UniProt ID	P19429; P63316
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