



# Recombinant human cardiac troponin ITC-complex (DAG-WT1154)

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

## PRODUCT INFORMATION

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

## BACKGROUND

<b>Introduction</b>	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  $\text{Ca}^{2+}$  - binding subunit, playing the main role in  $\text{Ca}^{2+}$  dependent regulation of muscle contraction.

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<b>Keywords</b>	Cardiac marker; Troponin; Troponin complex; Troponin C; Troponin I; Troponin T
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## GENE INFORMATION

<b>UniProt ID</b>	P19429; P45379; P63316
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