



## CERTIFICATE OF ANALYSIS

PRODUCT NAME:	TROPONIN I Human
CAS NO:	77108-40-8
CAT. NO:	I550-11
EXPIRATION:	1 year
FORM:	8M Urea, 50mM Tris-HCl, 15mM beta-mercaptoethanol, 1mM EDTA
PROTEIN CONC:	>0.10 mg/ml
SOURCE:	Human Heart
STORAGE:	-40 C
SYNONYMS:	Tn-I, hTn-I,
UNSPSC CODE:	51131907

Human Troponin is a family of proteins (cardiac troponin I, cardiac troponin T and cardiac troponin C) found in skeletal and heart muscle fibers; cardiac troponin helps muscles contract. Certain subtypes of human troponin (cardiac troponin I and troponin T) are very sensitive and specific indicators of damage to the heart muscle myocardium). Human Troponin(s) are measured in the blood to differentiate between unstable angina and myocardial infarction (heart attack) in patients with chest pain. A patient who had suffered from a myocardial infarction would have an area of damaged heart muscle and so would have elevated cardiac troponin levels in the blood.

Human Troponin Study: Cardiac Marker(s) Human Native Troponin is a family of proteins ( human cardiac human troponin I, human cardiac troponin T and human cardiac troponin C) and are found in skeletal and heart muscle fibers; troponin helps muscles contract. Certain subtypes of cardiac troponin (human cardiac marker(s) troponin I and troponin T) are specific indicators of damage to the heart muscle myocardium). Human Cardiac Marker(s) Troponin is measured in the blood to differentiate between unstable angina and myocardial infarction (heart attack) in patients with chest pain. A patient who had suffered from a myocardial infarction would have an area of damaged heart muscle and so would have elevated cardiac troponin level(s) in the blood. Human Cardiac Marker(s) Troponin is found in the 3-unit complex (cardiac troponin I, cardiac troponin T and cardiac troponin C) of the contractile apparatus in myofibrils. Troponin Ref. CMAJ • November 8, 2005; 173 (10)/human/cardiac/troponin.

Human Troponin I research: Human cardiac Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. Human TROPONIN I REF: UniProtKB/Swiss-Prot entry P19429)/human/cardiac/troponin.



Human Troponin I research: Multiple Biomarker Use for Detection of Adverse Events in Patients Presenting with Symptoms Suggestive of Acute Coronary Syndrome. measured 7 biomarkers: myeloperoxidase (MPO), soluble CD40 ligand (CD40L), placental growth factor (PIGF), metalloproteinase-9 (MMP-9), high-sensitivity C-reactive protein (hsCRP), cardiac troponin I (cTnI), and N-terminal pro-B-type natriuretic peptide (NT-proBNP). Human TROPONIN REF: Clinical Chemistry. 2007;53:874-881)/human/cardiac/troponin.