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Product datasheet for BA627

Cardiac Troponin I Human Protein

Product data:

Product Type:	Native Proteins
Description:	Cardiac Troponin I human protein, 10 µg
Species:	Human
Protein Source:	Cardiac muscle
Concentration:	lot specific
Purity:	>95% by SDS-PAGE
Buffer:	State: Liquid Buffer System: 7M Urea, 5 mM EDTA, 20 mM Tris Preservative: 15 mM Mercaptoethanol
Preparation:	Liquid
Applications:	ELISA.
Protein Description:	Purified native Human Troponin I from Human heart
Note:	Caution: Blood samples of the tissue donor for this product was tested and found negative for HBsAg, HCV, syphillis and HIV-I and HIV-II antibodies. Nevertheless, all products from human sources should be handled as potentially infectious.
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000354
Locus ID:	7137
Cytogenetics:	19q13.42
Synonyms:	CMD1FF; CMD2A; CMH7; cTnI; RCM1; TNNC1

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Summary: Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM). Troponin I is useful in making a diagnosis of heart failure, and of ischemic heart disease. An elevated level of troponin is also now used as indicator of acute myocardial injury in patients hospitalized with moderate/severe Coronavirus Disease 2019 (COVID-19). Such elevation has also been associated with higher risk of mortality in cardiovascular disease patients hospitalized due to COVID-19. [provided by RefSeq, Aug 2020]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency

Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

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