

# ***Life Diagnostics, Inc.***

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## ***Human Cardiac Troponin-I (Recombinant)***

Catalog No.	1220
SDS PAGE	24 kDa band
Purity	≥98%
Concentration	0.5 - 4 mg/ml
Buffer	6M urea, 50 mM Tris (pH 8.0)
Storage	-20°C (avoid repeated freeze thawing)
Source	Expressed in E. coli.

Troponin I (TnI) is one of three subunits that form the troponin complex of the thin filaments of striated muscle. The troponin complex serves as a calcium-sensitive switch that regulates striated muscle contraction. Troponin I binds actin and inhibits actomyosin ATPase activity in the absence of calcium. Cardiac troponin I is characterized by a molecular weight of ~24 kDa. It is expressed only in the heart and has proved to be a specific biomarker for heart disease. Recombinant cardiac troponin-I is purified from E. coli extracts using ion-exchange chromatography in conjunction with calcium dependent affinity chromatography on troponin-C agarose. Recombinant human cardiac troponin-I is recognized by antibodies targeted against native human cardiac troponin-I.

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