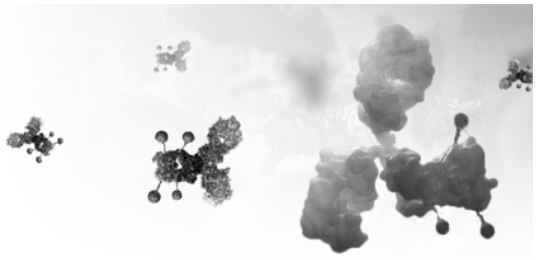

Native Troponin I (cTnI) (DAGA-330)

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

PRODUCT INFORMATION

Species	Human
Purity	> 98% (SDS-PAGE)
Conjugate	Unconjugated
Molecular Weight	~24 KDa
Format	Liquid
Concentration	> 0.5 mg/mL
Size	25 µg, 100 µg, 1 mg
Buffer	Solution in Urea, Tris-HCl, beta-mercaptoethanol, EDTA, pH 7.3-7.5.
Preservative	None
Storage	Store at -20°C.

BACKGROUND

Introduction	Current studies show that Troponin I is a part of the troponin complex. Troponin I binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place. Because of it myosin cannot bind actin in relaxed muscle. When calcium binds to the Troponin C it causes conformational changes which lead to dislocation of troponin I and finally tropomyosin leaves the binding site for myosin on actin leading to contraction of muscle. Human Troponin is a family of proteins (Troponin I, T and C) found in skeletal and heart muscle fibers; cardiac Troponin helps muscles contract. Certain subtypes of human troponin (cardiac troponin I and T) are very sensitive and specific indicators of damage to the heart muscle myocardium).

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Keywords	Tn-I; hTn-I; cTnI; cardiac Tn-I; TnI; TNNC1

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