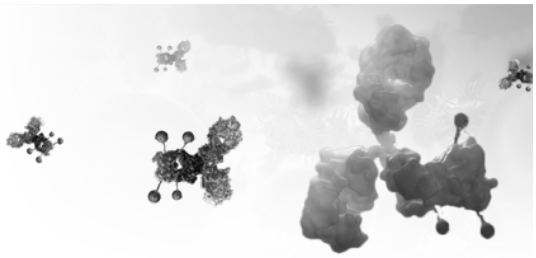

Recombinant Troponin I-Cardiac [His] (DAGA-329)

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

PRODUCT INFORMATION

Species	Human
Purity	≥ 95% pure (SDS-PAGE Coomassie staining). Metal Affinity Chromatography
Conjugate	His
Applications	ELISA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Liquid
Concentration	3.49 mg/mL (Bradford)
Size	1 mg
Buffer	20 mM Tris, 150 mM Sodium Chloride, 8 M Urea, pH 8.0 + 0.2.
Preservative	None
Storage	Store at -70°C. Aliquot to avoid multiple/freeze thaw cycles.

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

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

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