

Recombinant Human Cardiac Troponin-I (cTnI)

Certificate of Analysis and Data Sheet

➤ Source: E.Coli	➤ Catalog No. PRO-341
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➤ **Background:**

Cardiac troponin C belongs to the EF-hand superfamily of calcium-binding proteins and plays an essential role in the regulation of muscle contraction and relaxation.

➤ **Description :**

Three troponin I genes have been identified in vertebrates that encode the isoforms expressed in adult cardiac muscle (TNNI3), slow skeletal muscle (TNNI1) and fast skeletal muscle (TNNI2), respectively. Skeletal isoforms of Troponin I were suggested to be used as markers of acute and chronic skeletal muscle injuries. Recombinant fast skeletal Troponin I is purified by proprietary chromatographic techniques.

➤ **Physical Appearance:**

Sterile Filtered colourless liquid formulation.

➤ **Formulation:**

0.5 mg/ml glycerol.

➤ **Stability:**

Recombinant TnI although stable at 10C for 1 week, should be stored desiccated below -18°C.

Please avoid freeze-thaw cycles.

➤ **Purity:**

Greater than 95.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Anion-exchange FPLC.

(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

➤ **Dimers and aggregates:**

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

➤ **Endotoxin:**

Less than 0.1 ng/μg (IEU/μg) of human TnI.

➤ **Usage:**

This material is offered by for research, laboratory or further evaluation purposes.