Datasheet for ABIN7317698

# TNNC1 Protein

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## Overview

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| Quantity: | 100 µg |
| Target: | TNNC1 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |

## Product Details

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| Purpose: | Recombinant Human Troponin C/TNNC1 Protein |
| Sequence: | Met 1-Glu161 |
| Characteristics: | A DNA sequence encoding the human TNNC1 (NP_003271.1) (Met1-Glu161) was expressed and purified. |
| Purity: | > 90 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | Please contact us for more information. |

## Target Details

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| Target: | TNNC1 |
| Alternative Name: | TNNC1 (TNNC1 Products) |
| Background: | Background: Troponin I, also known as TNNC1, is part of the troponin complex. This complex contains 3 subunits: troponin I (TnI), troponin T (TnT) and troponin C (TnC). Troponin I is the inhibitory subunit, blocking actin-myosin interactions and thereby mediating striated muscle relaxation. It binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place. |

## Target Details

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| | 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. Synonym: CMD1Z,CMH13,TN-C,TNC,TNNC |
| Molecular Weight: | 18.4 kDa |
| NCBI Accession: | NP_003271 |

## Application Details

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| Comment: | 20 kDa |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from sterile 150 mM NaCl, 10 mM Na2HPO4, pH 7.5 |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |