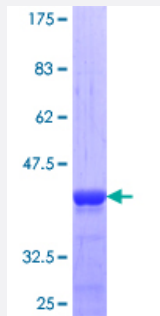


TNNI2 (Human) Recombinant Protein (Q01)

Catalog # H00007136-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human TNNI2 partial ORF (NP_003273.1, 2 a.a. - 100 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GDEEKRNRAITARRQHLKSVMLQIAATELEKEESRREAQNYLAEHCPPLHIPGSMSEVQELCKQLHAKIDAAEEEEKYDMEVRVQKTSKELEDMNQKL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — TNNI2

Entrez GeneID [7136](#)

GeneBank Accession# [NM_003282](#)

Protein Accession# [NP_003273.1](#)

Gene Name TNNI2

Gene Alias AMCD2B, DA2B, FSSV

Gene Description troponin I type 2 (skeletal, fast)

Omim ID [191043 601680](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen receptor-related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in this gene cause myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]

Other Designations OTTHUMP00000014141|OTTHUMP00000014142|troponin I fast twitch 2|troponin I, fast-twitch skeletal muscle isoform|troponin I, skeletal, fast

Disease

- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)
- [Edema](#)