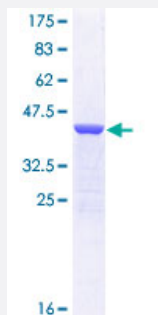


MYH7 (Human) Recombinant Protein (Q01)

Catalog # H00004625-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human MYH7 partial ORF (NP_000248, 1 a.a. - 109 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MGDSEMAVFGAAAPYLRKSEKERLEAQTRPFDLKKDVFVPDDKQEFVKAKMSREGGKVTAE EYGKTVTVKEDQVMQQNPPKFDKIEDMAMLTFLHEPAVLNLDKRY
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.73
Interspecies Antigen Sequence	Mouse (94); Rat (93)
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 — MYH7

Entrez GeneID	4625
GeneBank Accession#	NM_000257
Protein Accession#	NP_000248
Gene Name	MYH7
Gene Alias	CMD1S, CMH1, DKFZp451F047, MGC138376, MGC138378, MPD1, MYHCB, SPMD, SPMM
Gene Description	myosin, heavy chain 7, cardiac muscle, beta
Omim ID	160500 160760 192600 608358
Gene Ontology	Hyperlink
Gene Summary	Muscle myosin is a hexameric protein containing 2 heavy chain subunits, 2 alkali light chain subunits, and 2 regulatory light chain subunits. This gene encodes the beta (or slow) heavy chain subunit of cardiac myosin. It is expressed predominantly in normal human ventricle. It is also expressed in skeletal muscle tissues rich in slow-twitch type I muscle fibers. Changes in the relative abundance of this protein and the alpha (or fast) heavy subunit of cardiac myosin correlate with the contractile velocity of cardiac muscle. Its expression is also altered during thyroid hormone depletion and hemodynamic overloading. Mutations in this gene are associated with familial hypertrophic cardiomyopathy, myosin storage myopathy, dilated cardiomyopathy, and Laing early-onset distal myopathy. [provided by RefSeq]
Other Designations	OTTHUMP00000027949 beta-myosin heavy chain myhc-slow myopathy, distal 1 myosin heavy chain (AA 1-96) myosin, heavy polypeptide 7, cardiac muscle, beta rhabdomyosarcoma antigen MU-RMS-40.7A

Pathway

- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Tight junction](#)

Disease

- [Cardiomegaly](#)
- [Cardiomyopathies](#)
- [Cardiomyopathy](#)
- [Death](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Hypertrophy](#)
- [Lipid Metabolism](#)
- [Mitochondrial Myopathies](#)
- [Motor Neuron Disease](#)
- [Tachycardia](#)
- [Tobacco Use Disorder](#)