

Recombinant Human MYH2 protein, His & GST-tagged

Cat. No. MYH2-1786H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYH2 aa. (Leu1237~Ala1471) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Leu1237~Ala1471
Description	Myosins are actin-based motor proteins that function in the generation of mechanical force in eukaryotic cells. Muscle myosins are heterohexamers composed of 2 myosin heavy chains and 2 pairs of nonidentical myosin light chains. This gene encodes a member of the class II or conventional myosin heavy chains, and functions in skeletal muscle contraction. This gene is found in a cluster of myosin heavy chain genes on chromosome 17. A mutation in this gene results in inclusion body myopathy-3. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Form	Freeze-dried powder
Molecular Mass	57kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Isoelectric Point	5.4

GENE INFORMATION

Gene Name	MYH2 myosin heavy chain 2 [Homo sapiens (human)]
Official Symbol	MYH2
Synonyms	MYH2; myosin heavy chain 2; IBM3; MYH2A; MYPOP; MYHSA2; MYHas8; MyHC-2A; MyHC-IIa; myosin-2; fast 2a myosin heavy chain; inclusion body myopathy 3, autosomal dominant; myosin heavy chain 2a; myosin heavy chain IIa; myosin heavy chain, skeletal muscle, adult 2; myosin, heavy chain 2, skeletal muscle, adult; myosin, heavy polypeptide 2, skeletal muscle, adult; type IIA myosin heavy chain

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Gene ID	4620
mRNA Refseq	NM_001100112.1
Protein Refseq	NP_001093582.1
UniProt ID	Q9UKX2
SDS-PAGE	