

Recombinant Human MYH1 protein, His-tagged

Cat. No. MYH1-7621H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYH1 aa. (Tyr585~Ala794) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Tyr585~Ala794
Description	Myosin is a major contractile protein which converts chemical energy into mechanical energy through the hydrolysis of ATP. Myosin is a hexameric protein composed of a pair of myosin heavy chains (MYH) and two pairs of nonidentical light chains. Myosin heavy chains are encoded by a multigene family. In mammals at least 10 different myosin heavy chain (MYH) isoforms have been described from striated, smooth, and nonmuscle cells. These isoforms show expression that is spatially and temporally regulated during development.
Form	Freeze-dried powder
Molecular Mass	27kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>98%

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Characteristic	The isoelectric point is 9.6.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
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.

GENE INFORMATION

Gene Name	MYH1 myosin heavy chain 1 [Homo sapiens (human)]
Official Symbol	MYH1
Synonyms	MYHa; HEL71; MYHSA1; MyHC-2x; MyHC-2X/D; epididymis luminal protein 71; myHC-IIx/d; myosin heavy chain 2x; myosin heavy chain IIx/d; myosin heavy chain, skeletal muscle, adult 1; myosin, heavy chain 1, skeletal muscle, adult; myosin, heavy polypeptide 1, skeletal muscle, adult; myosin-1

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Gene ID	4619
mRNA Refseq	NM_005963.3
Protein Refseq	NP_005954.3
UniProt ID	P12882
SDS-PAGE	