Recombinant Human MYL5, His-tagged

Cat. No. MYL5-29364TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human MYL5 with an N-terminal His tag; 197aa, 22.1 kDa.
Species	Human
Source	E.coli
ProteinLength	173 amino acids
Description	This gene encodes one of the myosin light chains, a component of the hexameric ATPase cellular motor protein myosin. Myosin is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene product, one of the regulatory light chains, is expressed in fetal muscle and in adult retina, cerebellum, and basal ganglia.
Conjugation	HIS
Molecular Weight	22.100kDa inclusive of tags
Tissue specificity	Expressed in fetal skeletal muscle and retina.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 20% Glycerol, 0.58% Sodium chloride, 0.02%

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	DTT, 0.002% PMSF
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSHVKDDEL DAMLKEASGP INFTMFLNLF GEKLSGTDAEETILNAFKML DPDGKGKINK EYIKRLLMSQ ADKMTAEEVD QMFQFASIDV AGNLMASRKT KKKEGGALRA QRASSNVFSN FEQTQIQEFK EAFTLMDQNR DGFIDKEDLK DTYASLGKTNDYKALSYVIT HGEEKEE
Sequence Similarities	Contains 3 EF-hand domains.

GENE INFORMATION

Gene Name	MYL5 myosin, light chain 5, regulatory [Homo sapiens]
Official Symbol	MYL5
Synonyms	MYL5; myosin, light chain 5, regulatory; myosin, light polypeptide 5, regulatory; myosin light chain 5;
Gene ID	4636
mRNA Refseq	NM_002477
Protein Refseq	NP_002468
MIM	160782
Uniprot ID	Q02045

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Chromosome Location	4p16
Pathway	Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem; Leukocyte transendothelial migration, organism-specific biosystem; Leukocyte transendothelial migration, conserved biosystem; Regulation of actin cytoskeleton, organism-specific biosystem;
Function	calcium ion binding; structural constituent of muscle;

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