

Recombinant Human MYL5, His-tagged

Cat. No. MYL5-3622H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MYL5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-132 aa).
Species	Human
Source	Human
Description	Myosin regulatory light chain 5, also known as MYL5, is a hexameric ATPase cellular motor protein. Myosin is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. MYL5 is a regulatory light chain and is expressed in fetal muscle and in adult retina, cerebellum, and basal ganglia. Reconstitution of myosin with regulatory light chain 5 or alkali light chain increases filament velocity to intermediate rates, and readdition of both classes of light chains fully restores the original sliding velocity.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl
Molecular Weight	17.4 kDa (156aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MGSMDQNRD GFIDKEDLKD TYASLGKTNV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

acids	KDDELDAMLK EASGPINFMT FLNLFGEKLS GTDAEETILN AFKMLDPDGK GKINKEYIKR LLMSQADKMT AEEVDQMFQF ASIDVAGNLD YKALSYVITH GEEKEE
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Focal adhesion; Leukocyte transendothelial migration; Regulation of actin cytoskeleton; Tight junction

GENE INFORMATION

Gene Name	MYL5 myosin, light chain 5, regulatory [Homo sapiens]
Official Symbol	MYL5
Synonyms	MYL5; myosin, light chain 5, regulatory; myosin light chain 5; MYLC2; myLC-2; MyLC-2; OTTHUMP00000217187; OTTHUMP00000217188; OTTHUMP00000217190; OTTHUMP00000217193; myosin regulatory light chain 5; myosin, light polypeptide 5, regulatory; superfast myosin regulatory light chain 2
Gene ID	4636
mRNA Refseq	NM_002477
Protein Refseq	NP_002468
MIM	160782
UniProt ID	Q02045

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Chromosome Location	4p16.3
Function	calcium ion binding; structural constituent of muscle