
Product Data Sheet

Product Name: MYL5 (1-173 a.a.) Human
 Cat. No.: GP23987
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Myosin light chain 5; Myosin regulatory light chain 5; Superfast myosin regulatory light chain 2; MYLC2; MyLC-2; MYL5.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHTMASRKT KKKEGGALRA QRASSNVFSN FEQTQIQEFK EAFTLMDQNR DGFIDKEDLK DTYASLGKTN VKDDELDAML KEASGPINFT MFLNLFGEKL SGTDAEETIL NAFKMLDPDG KGKINKEYIK RLLMSQADKM TAEVDQMFQ FASIDVAGNLDYKALSIVIT HGEEKEE.		
Formulation	MYL5 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl, 1mM DTT and 0.1mM PMSF.		

Introduction

Myosin regulatory light chain 5 (MYL5) is a hexameric ATPase cellular motor protein. Myosin is comprised of 2 heavy chains, 2 nonphosphorylatable alkali light chains, and 2 phosphorylatable regulatory light chains. MYL5 is a regulatory light chain and is expressed in the fetal muscle and in the adult retina, cerebellum, and basal ganglia. The reconstitution of myosin with MYL5 or alkali light chain increases filament velocity to intermediate rates, and the re-addition of both classes of light chains fully reinstates the original sliding pace.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MYL5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 197 amino acids (1-173 a.a.) and having a molecular mass of

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22.1kDa.MYL5 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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