
Product Data Sheet

Product Name: MYL9 Mouse
 Cat. No.: GP23990
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Myosin regulatory light polypeptide 9; Myosin regulatory light chain 2; Myosin regulatory light chain 9; Myl9; Myrl2.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMSSKRA KAKTTKKRPQ RATSNVFAMF DQSQIQEFKE AFNMIDQNRD GFIDKEDLHD MLASLGKNPT DEYLEGMMNE APGPINFTMF LTMFGEKLNQ TDPEDVIRNA FACFDEEASG FIHEDHLREL LTTMGDRFTD EEVDEMYREA PIDKKGNFNY VEFTRILKHG AKDKDD		
Formulation	MYL9 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.		

Introduction

MYL9 is one of the numerous regulatory myosin light chains. Myosin which is a structural component of the muscle consists of 2 heavy chains and 4 light chains. MYL9 is a myosin light chain regulates muscle contraction by modulating the ATPase activity of myosin heads. MYL9 binds calcium and is activated by myosin light chain kinase. Regulatory myosin light chains regulate contraction in smooth muscle and non-muscle cells via phosphorylation by MLCK (myosin light chain kinase). Phosphorylation of regulatory myosin light chains is catalyzed by MLCK in the presence of calcium and calmodulin and it increases the actin-activated myosin ATPase activity, thus regulates the contractile activity.

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

Caution: Product has not been fully validated for medical applications. For research use only.

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MYL9 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 196 amino acids (1-172 a.a) and having a molecular mass of 22.4kDa. MYL9 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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