
Product Data Sheet

Product Name: MYL2 Human
 Cat. No.: GP23984
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MLC2; CMH10; MYL-2; Myosin regulatory light chain 2; MYOSIN LIGHT CHAIN REGULATORY VENTRICULAR; DKFZp779C0562; MYL2; MLC-2v; MLC-2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAPKKAKKRA GGANSNVFSM FEQTQIQEFK EAFTIMDQNR DGFIDKNDLR DTFAALGRVN VKNEEIDEMI KEAPGPINFT VFLTMFGEKL KGADPEETIL NAFKVFDPEG KGVLKADYVR EMLTTQAERF SKEEVDQMFA AFPPDVTGNL DYKNLVHIIT HGEEKD.		
Formulation	MYL2 solution containing 20mM Tris pH-8, 20% glycerol and 5mM CaCl ₂ .		

Introduction

MYL2 regulatory light chain is associated with cardiac myosin beta (or slow) heavy chain. Ca⁺ activates the phosphorylation of regulatory light chain that in turn activates contraction. Mutations in this MYL2 gene are related with mid-left ventricular chamber type hypertrophic cardiomyopathy. MYL2 is an essential protein that plays a role in the regulation of myosin ATPase activity in smooth muscle. MYL2 phosphorylation is regulated by ROCK and MLC kinase and is involved in platelet biogenesis by controlling proplatelet formation and fragmentation.

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

MYL2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 186 amino acids (1-166) and having a molecular mass of 20.9 kDa.

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

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MYL2 is fused to a 20 amino acid His Tag fused at N-terminus and purified by proprietary chromatographic techniques.

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