



Product Datasheet

Product Name	Myosin Light Chain 2 Human Recombinant
Cata No	CB501443
Source	<i>Escherichia Coli.</i>
Synonyms	MLC2, CMH10, MYL-2, Myosin regulatory light chain 2, MYOSIN LIGHT CHAIN REGULATORY VENTRICULAR, DKFZp779C0562, MYL2, MLC-2v, MLC-2.

Description

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.

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

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

MYL2 solution containing 20mM Tris pH-8 pH-7.4, 20% glycerol, 5mM CaCl₂.

Stability

MYL2 Human Recombinant although stable at 4°C for 1 week, should be stored desiccated below -18°C.

Please prevent freeze thaw cycles.

Sequence

MGSSHHHHH SSGLVPRGSH MAPKKAKKRA
GGANSNVFSM FEQTQIQEFK EAFTIMDQNR
DGFIDKNDLR DTFAALGRVN VKNEEIDEMI
KEAPGPINFT VFLTMFGEKL KGADPEETIL
NAFKVFDPEG KGVLKADYVR EMLTTQAERF
SKEEVDQMFA AFPPDVTGNL DYKNLVHIIT
HGEEKD.