
Product Data Sheet

Product Name: MYL6B Human

Cat. No.: GP23988

Batch No.: 1

Product Data

| | | | |
|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | E.coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Myosin light chain 6B; Myosin light chain 1 slow-twitch muscle A isoform; MLC1sa; Smooth muscle and nonmuscle myosin light chain alkali 6B; MYL6B; MLC1SA. | | |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGSMPKDV PVKKPAGPSI SKPAAKPAAA GAPPAKTKAE PAVPQAPQKT QEPPVDLSKV VIEFNKDQLE EFKEAFELFD RVGDGKILYS QCGDVMRALG QNPTNAEVLK VLG NPKSDEL KSRRVDFETF LPMLQAVAKN RGQGTIEDYL EGFRVFDKEG NGKVMGAELR HVLTTLGEKM TEEEVETVLA GHEDSNGCIN YEAFLKHILS V. | | |
| Formulation | The MYL6B solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT and 10% glycerol. | | |

Introduction

Myosin Light Chain 6B (MYL6B) is a heavy chain regulator located in smooth muscle and non-muscle Myosin complexes. Contractile activity in the smooth muscle is regulated by the calcium/calmodulin-dependent phosphorylation of Myosin light chain by Myosin light chain kinase. MYL6B doesn't bind calcium during contraction. MYL6B is mostly found as a hexamer consisting of 4 light chains and 2 heavy chains. MYL6B usually interacts with Myosin Va, an Actin based motor which moves in large steps. MYL6B is expressed in the majority of tissues with neurons, while smooth muscle tissue having the highest expression.

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.

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

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Background

MYL6B Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 231 amino acids (1-208) and having a molecular mass of 25.2 kDa. The MYL6B is fused to a 23 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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