Recombinant Mouse Myl2 Protein, Myc/DDK-tagged

Cat. No. Myl2-4250M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length myosin, light polypeptide 2, regulatory, cardiac, slow (Myl2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Contractile protein that plays a role in heart development and function Following phosphorylation, plays a role in cross-bridge cycling kinetics and cardiac muscle contraction by increasing myosin lever arm stiffness and promoting myosin head diffusion; as a consequence of the increase in maximum contraction force and calcium sensitivity of contraction force. These events altogether slow down myosin kinetics and prolong duty cycle resulting in accumulated myosins being cooperatively recruited to actin binding sites to sustain thin filament activation as a means to fine-tune myofilament calcium sensitivity to force. During cardiogenesis plays an early role in cardiac contractility by promoting cardiac myofibril assembly.
Molecular Mass	18.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Myl2 myosin, light polypeptide 2, regulatory, cardiac, slow [Mus musculus (house mouse)]
Official Symbol	Myl2
Synonyms	MYL2; myosin, light polypeptide 2, regulatory, cardiac, slow; myosin regulatory light chain 2, ventricular/cardiac muscle isoform; myosin light chain 2v; ventricular myosin regulatory light chain; myosin light chain, phosphorylatable, cardiac ventricles; MLC-2; Mlc2v; Mylpc; MLC-2v
Gene ID	17906
mRNA Refseq	NM_010861
Protein Refseq	NP_034991
UniProt ID	P51667

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