

Recombinant Human PLN protein, His & GST-tagged

Cat. No. PLN-1928H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLN aa. (Met1~Leu52 (Accession # P26678)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Leu52
Description	The protein encoded by this gene is found as a pentamer and is a major substrate for the cAMP-dependent protein kinase in cardiac muscle. The encoded protein is an inhibitor of cardiac muscle sarcoplasmic reticulum Ca(2+)-ATPase in the unphosphorylated state, but inhibition is relieved upon phosphorylation of the protein. The subsequent activation of the Ca(2+) pump leads to enhanced muscle relaxation rates, thereby contributing to the inotropic response elicited in heart by beta-agonists. The encoded protein is a key regulator of cardiac diastolic function. Mutations in this gene are a cause of inherited human dilated cardiomyopathy with refractory congestive heart failure, and also familial hypertrophic cardiomyopathy.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 38.5kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 7.2.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

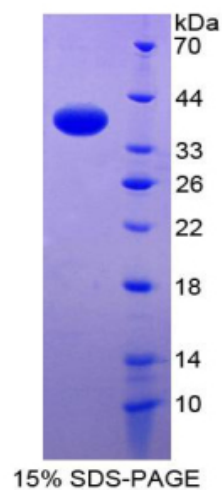
Gene Name	PLN phospholamban [Homo sapiens (human)]
Official Symbol	PLN
Synonyms	Myl3; myosin, light polypeptide 3; Mylc; VLC1; MLC1s; MLC1v; MLC1SB; myosin light chain 3; myosin alkali light chain 1, ventricular/slow skeletal muscle isoform; myosin light chain 1, slow-twitch muscle B/ventricular isoform; myosin light chain, alkali, cardiac ventricles; myosin, light polypeptide 3, alkali; ventricular, skeletal, slow; slow skeletal; ventricular; ventricular/slow twitch myosin alkali light chain

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Gene ID	5350
mRNA Refseq	NM_002667.4
Protein Refseq	NP_002658.1
UniProt ID	P26678



SDS-PAGE