

Recombinant Human PLN Protein (1-52 aa), GST-tagged

Cat. No. PLN-1489H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PLN Protein (1-52 aa) is produced by Yeast expression system. This protein is fused with a GST tag at the N-terminal. Research Area: Cardiovascular. Protein Description: Full Length.
Species	Human
Source	Yeast
ProteinLength	1-52 aa
Description	Reversibly inhibits the activity of ATP2A2 in cardiac sarcoplasmic reticulum by decreasing the apparent affinity of the ATPase for Ca ²⁺ . Modulates the contractility of the heart muscle in response to physiological stimuli via its effects on ATP2A2. Modulates calcium re-uptake during muscle relaxation and plays an important role in calcium homeostasis in the heart muscle. The degree of ATP2A2 inhibition depends on the oligomeric state of PLN. ATP2A2 inhibition is alleviated by PLN phosphorylation
Form	Tris-based buffer, 50% glycerol
Molecular Mass	33.1 kDa
AA Sequence	MEKVQYLTRSAIRRASTIEMPQQARQKLQNLFINFCLILICLLLCIIVMLL
Purity	> 90% as determined by SDS-PAGE.

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Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

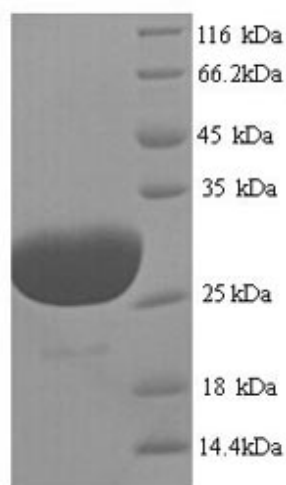
GENE INFORMATION

Gene Name	PLN phospholamban [Homo sapiens]
Official Symbol	PLN
Synonyms	PLN; phospholamban; PLB; CMD1P; CMH18;
Gene ID	5350
mRNA Refseq	NM_002667
Protein Refseq	NP_002658
MIM	172405
UniProt ID	P26678

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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