

## Cardiac phospholamban (PLN) Recombinant Protein | PLN recombinant protein

Recombinant Human Cardiac phospholamban (PLN)

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA113264</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

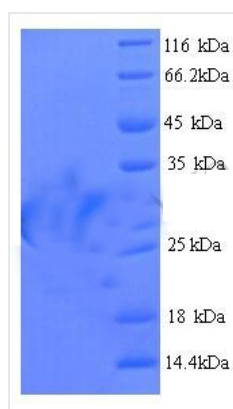
### PRODUCT SYNONYMS

Cardiac phospholamban (PLN); Recombinant Human Cardiac phospholamban (PLN); PLN recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                    |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                           |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                    |
| Sequence Positions      | 1-52aa; Full Length Protein                                                                                                                                                                         |
| Sequence                | MEKVQYLTRS AIRRASTIEM PQQARQKLQN LFINFCLILI CLLLICIIVM LL                                                                                                                                           |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |

### IMAGES



SDS-PAGE

### ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PLN recombinant protein | This protein 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. |
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### NCBI AND UNIPROT INFORMATION

|             |         |
|-------------|---------|
| NCBI GI #   | 4505887 |
| NCBI GeneID | 5350    |

|                                  |                       |
|----------------------------------|-----------------------|
| NCBI Accession #                 | NP_002658.1           |
| NCBI GenBank Nucleotide #        | NM_002667.4           |
| UniProt Accession #              | P26678                |
| Molecular Weight                 | 33.1 kDa              |
| NCBI Official Full Name          | cardiac phospholamban |
| NCBI Official Synonym Full Names | phospholamban         |
| NCBI Official Symbol             | PLN                   |
| NCBI Official Synonym Symbols    | PLB; CMD1P; CMH18     |
| NCBI Protein Information         | cardiac phospholamban |
| UniProt Protein Name             | Cardiac phospholamban |
| UniProt Gene Name                | PLN                   |
| UniProt Synonym Gene Names       | PLB; PLB              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pln-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113264>