

Full-Length

PLN (Human) Recombinant Protein (P01)

Catalog # H00005350-P01

Size 50 ug

Specification

Product Description	Human PLN full-length ORF (BAG34742.1, 1 a.a. - 52 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MEKVQYLTRSAIRRASTIEMPQQARQKLQNLFINFCLILICLLLICIVMLL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	32.12
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PLN

Entrez GeneID	5350
GeneBank Accession#	AK311799.1
Protein Accession#	BAG34742.1
Gene Name	PLN
Gene Alias	CMD1P, PLB
Gene Description	phospholamban
Omim ID	172405 609909
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000017092 cardiac phospholamban

Pathway

- [Calcium signaling pathway](#)

Disease

- [Arrhythmias](#)
- [Asthma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Death](#)
- [Disease Progression](#)

- [Genetic Predisposition to Disease](#)
- [Long QT syndrome](#)
- [Ventricular Dysfunction](#)