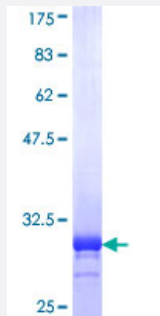


PLN (Human) Recombinant Protein (Q01)

Catalog # H00005350-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PLN partial ORF (AAH05269, 1 a.a. - 30 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MEKVQYLTRSAIRRASTIEMPQQARQKLQN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	28.93
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
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# [BC005269](#)

Protein Accession# [AAH05269](#)

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](#)