

# Recombinant Human Calmegin/CLGN Protein (His Tag)

Catalog Number: PKSH032147



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

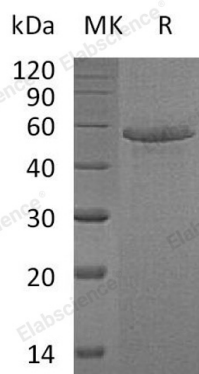
## Description

<b>Species</b>	Human
<b>Mol_Mass</b>	52.9 kDa
<b>Accession</b>	O14967
<b>Bio-activity</b>	Not validated for activity

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

Calmegin (CLGN) is a member of the calreticulin family. Calmegin is a testis-specific endoplasmic reticulum chaperone protein. The functions during spermatogenesis as a chaperone for a range of client proteins that is important for sperm adhesion onto the egg zona pellucida and for subsequent penetration of the zona pellucida. It is required for normal male fertility, normal sperm migration from the uterus into the oviduct. Calmegin binds calcium ions and interacts with PDILT. Calmegin may play a role in spermatogenesis and infertility.

## For Research Use Only