

# Human RCN3 Protein (His Tag)

Catalog Number: 13533-H08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

RLP49

### Protein Construction:

A DNA sequence encoding the human RCN3 (Q96D15) (Met1-His324) was expressed with a polyhistidine tag at the C-terminus.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Lys 21

### Molecular Mass:

The recombinant human RCN3 comprises 315 amino acids and has a predicted molecular mass of 36.2 kDa. The apparent molecular mass of the protein is approximately 47 kDa in SDS-PAGE under reducing conditions

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

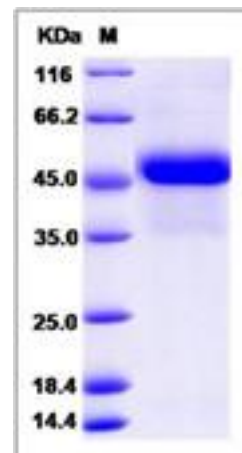
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

RCN3 belongs to the CREC family which contains multiple EF-hand Ca<sup>2+</sup>-binding proteins localized to the secretory pathway. RCN3 sequence is characterized by the presence of five Arg-Xaa-Xaa-Arg motifs, which represents the target sequence of subtilisin-like proprotein convertases (SPCs). SPCs are a family of seven structurally related serine endoproteases that are involved in the proteolytic activation of proproteins. RCN3 is transiently associated with proPACE4, but not with mature PACE4. Inhibition of PACE4 maturation by a Ca<sup>2+</sup> ionophore resulted in accumulation of the proPACE4-RCN-3 complex in cells. It has been proposed that elective and transient association of RCN3 with the precursor of PACE4 plays an important role in the biosynthesis of PACE4.

## References

1. Danielsen JM, *et al.* (2011) Mass spectrometric analysis of lysine ubiquitylation reveals promiscuity at site level. *Mol Cell Proteomics*. 10(3):M110.003590.
2. Rual JF, *et al.* (2005) Towards a proteome-scale map of the human protein-protein interaction network. *Nature*. 437(7062):1173-8.
3. Kamatani Y, *et al.* (2010) Genome-wide association study of hematological and biochemical traits in a Japanese population. *Nat Genet*. 42(3):210-5.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>