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# Recombinant human RGN protein

Catalog Number: ATGP1187

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-299aa

#### **UniProt No.**

015493

#### **NCBI Accession No.**

NP 690608

#### **Alternative Names**

Regucalcin, RC, SMP30

# **PRODUCT SPECIFICATION**

## **Molecular Weight**

35.4 kDa (319aa)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 20% glycerol

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE, Denatured

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

RGN (Regucalcin) belongs to the SMP-30/CGR1 family. This protein is Ca (2+) -binding protein that does not contain EF-hand motif of Ca (2+) -binding domain. RGN plays a pivotal role in the keep of intracellular Ca2+ homeostasis due to activating Ca2+ pump enzymes in the plasma membrane (basolateral membrane), microsomes (endoplasmic reticulum) and mitochondria of many cells. Also, it plays a multifunctional role in the regulation of cell functions in liver, kidney cortex, heart and brain and a suppressor protein for cell signaling systems in many cell types.



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# **Amino acid Sequence**

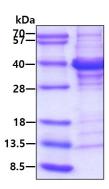
<MGSSHHHHHH SSGLVPRGSH> MSSIKIECVL PENCRCGESP VWEEVSNSLL FVDIPAKKVC RWDSFTKQVQ RVTMDAPVSS VALRQSGGYV ATIGTKFCAL NWKEQSAVVL ATVDNDKKNN RFNDGKVDPA GRYFAGTMAE ETAPAVLERH QGALYSLFPD HHVKKYFDQV DISNGLDWSL DHKIFYYIDS LSYSVDAFDY DLQTGQISNR RSVYKLEKEE QIPDGMCIDA EGKLWVACYN GGRVIRLDPV TGKRLQTVKL PVDKTTSCCF GGKNYSEMYV TCARDGMDPE GLLRQPEAGG IFKITGLGVK GIAPYSYAG

#### **General References**

Chakraborti S., et al. (2010) Biochemistry. 49:3436-3444 Yamaguchi M., et al. (2005) Int J Mol Med. 15: 372-389

# **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

