

## RGN Human

**Description:**RGN Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 319 amino acids (1-299 a.a.) and having a molecular mass of 35.4kDa.RGN is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:**PRPS-922

For research use only.

**Synonyms:**Regucalcin, RC, Gluconolactonase, GNL, Senescence marker protein 30, SMP-30, RGN, SMP30.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MSSIKIECVL PENCRCGESP  
VWEEVNSLL FVDIPAKKVC RWDSFTKQVQ RVTMDAPVSS VALRQSGGYV ATIGTKFCAL  
NWKEQSAVVL ATVDNDKKN RFNDGKVDPA GRYFAGTMAE ETAPAVLERH QGALYSLFPD  
HHVKKYFDQV DISNGLDWSL DHKIFYIIDS LSYSVDAFDY DLQTGQISNR RSVYKLEKEE  
QIPDGMCI DA EG

**Purity:**Greater than 85.0% as determined by SDS-PAGE.

**Formulation:**

RGN protein solution (0.5mg/ml) containing 20mM Tris-HCl, pH8.0, 2M Urea and 20% Glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

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

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