

Recombinant Human RGN, His-tagged

Cat. No. RGN-3642H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RGN protein, fused to His-tag at N-terminus, was expressed in E.coli (1-299 aa).
Species	Human
Source	Human
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.
Form	Liquid. In 20mM Tris-HCl, pH8.0, 2M Urea, 20%Glycerol
Molecular Weight	35.4kDa (319aa)
Purity	> 85% by SDS - PAGE
Concentration	0.5mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSSIKIECVL PENCRCGESP VWEEVNSLL FVDIPAKKVC RWDSFTKQVQ RVTMDAPVSS VALRQSGGYV ATIGTKFCAL

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NWKEQSAVVL ATVDNDKKNN RFNDGKVDPA GRYFAGTMAE ETAPAVLERH
 QGALYSLFPD HHVKKYFDQV DISNGLDWSL DHKIFYIIDS LSYSVDAFDY
 DLQTGQISNR RSVYKLEKEE QIPDGMCI DA EGKLWVACYN GGRVIRLDPV
 TGKRLQTVKL PVDKTTSCCF GGKNYSEMYV TCARDGMDPE GLLRQPEAGG
 IFKITGLGVK GIAPYSYAG

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Ascorbate and aldarate metabolism; Metabolic pathways; Pentose phosphate pathway

GENE INFORMATION

Gene Name

RGN regucalcin (senescence marker protein-30) [Homo sapiens]

Official Symbol

RGN

Synonyms

RGN; RC; GNL; SMP30; regucalcin (senescence marker protein-30); regucalcin; SMP-30; gluconolactonase; OTTHUMP00000023195; OTTHUMP00000023196; senescence marker protein 30; senescence marker protein-30; EC 3.1.1.17; Gluconolactonase

Gene ID

9104

mRNA Refseq

NM_004683

Protein Refseq

NP_004674

MIM

300212

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UniProt ID	Q15493
Chromosome Location	Xp11.3
Function	calcium ion binding; enzyme regulator activity; gluconolactonase activity; hydrolase activity; zinc ion binding

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