

## 32-4640: Recombinant Human Regucalcin

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

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 85.0% as determined by SDS-PAGE.
<b>Content :</b>	RGN protein solution (0.5mg/ml) containing 20mM Tris-HCl, pH8.0, 2M Urea and 20% Glycerol.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSSLVPRGSH MSSIKIECVL PENCRCGESP VWEEVSNLL FVDIPAKKVC RWDSFTKQVQ RVTMDAPVSS VALRQSGGYV ATIGTKFCAL NWKEQSAVVL ATVDNDKKNR RFNDGKVDPA GRYFAGTMAE ETAPAVLERH QGALYSLFPD HHVKKYFDQV DISNGLDWSL DHKIFYIYDS LSYSVDAFDY DLQTGQISNR RSVYKLEKEE QIPDGMCI DA EGKLWVACYN GGRVIRLDPV TGKRLQTVKL PVDKTTSCCF GGKNYSEMYV TCARDGMDPE GLLRQPEAGG IFKITGLGVK GIAPYSYAG.

