9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

RGN Human

Regucalcin Human Recombinant
RCP1853

Product Overview

Name	RGN Human
Description	
Regucalcin Human Recombinant	
Accession (Primary)	Q15493
Synonyms	
Regucalcin, RC, Gluconolactonase, GNL, Senescence marker protein 30, SMP-30, RGN, SMP30.	
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 Ca2+ homeostasis due to activating of Ca2+ 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
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.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MSSIKIECVL PENCRCGESP VWEEVSNSLL FVDIPAKKVC RWDSFTKQVQ RVTMDAPVSS VALRQSGGYV ATIGTKFCAL NWKEQSAVVL ATVDNDKKNN RFNDGKVDPA GRYFAGTMAE ETAPAVLERH QGALYSLFPD HHVKKYFDQV DISNGLDWSL DHKIFYYIDS LSYSVDAFDY DLQTGQISNR	

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RSVYKLEKEE QIPDGMCIDA EGKLWVACYN GGRVIRLDPV TGKRLQTVKL PVDKTTSCCF GGKNYSEMYV TCARDGMDPE GLLRQPEAGG IFKITGLGVK GIAPYSYAG.

Precautions

RGN Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q15493)