
Product Data Sheet

Product Name: RGN Human
 Cat. No.: GP24372
 Batch No.: 1

Product Data

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|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Regucalcin; RC; Gluconolactonase; GNL; Senescence marker protein 30; SMP-30; RGN; SMP30. | | |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MSSIKIECVL PENCRCGESP VWEEVSNSLL FVDIPAKKVC RWDSFTKQVQ RVTMDAPVSS VALRQSGGYV ATIGTKFCAL NWKEQSAVVL ATVDNDKKNN RFNDGKVDPA GRYFAGTMAE ETAPAVLERH QGALYSLFPD HHVKKYFDQV DISNGLDWSL DHKIFYIDS LSYSVDAFDY DLQTGQISNR RSVYKLEKEE QIPDGMCIDA EGKLWVACYN GGRVIRLDPV TGKRLQTVKL PVDKTTSCCF GGKNYSEMYV TCARDGMDPE GLLRQPEAGG IFKITGLGVK GIAPYSYAG. | | |
| Formulation | RGN protein solution (0.5mg/ml) containing 20mM Tris-HCl, pH8.0, 2M Urea and 20% Glycerol. | | |

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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

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.

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