

RGN, 1-299aa, Human, His tag, E.coli

Cat.NO.: TP03721

3th Edition

Synonyms:Regucalcin, RC, SMP30.

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.

Form:Liquid. In 20mM Tris-HCl, pH8.0, 2M Urea, 20%Glycerol

Molecular Weight:35.4kDa (319aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMSSIKIECVLPENCRGESPVWEEVSNSLLFVDIPAKKVCRWDSFTKQVQRVTMD
APVSSVALRQSGGYVATIGTKFCALNWKEQSAVVLATVDNDKNNRFNDGKVDPAGRYFAGTMAEETAPAVLERH
QGALYSLFPDHHVKKYFDQVDISNGLDWSLDHKIFYIDSLSYSVDAFDYDLQTGQISNRRSVYKLEKEEQIPDGMC
IDAEGKLWVACYNGGRVIRLDPVTGKRLQTVKLPVDKTTSCCFGGKNYSEMYVTCARDGMDPEGLLRQPEAGGIF
KITGLGVKGIAPYSYAG

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.