

Recombinant Rat RGN Protein (1-299 aa), His-tagged

Cat. No. RGN-1505R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat RGN Protein (1-299 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length.
Species	Rat
Source	Yeast
ProteinLength	1-299 aa
Description	Gluconolactonase with low activity towards other sugar lactones, including gulonolactone and galactonolactone. Catalyzes a key step in ascorbic acid (vitamin C) biosynthesis. Can also hydrolyze diisopropyl phosphorofluoridate and phenylacetate (in vitro). Calcium-binding protein. Modulates Ca ²⁺ signaling, and Ca ²⁺ -dependent cellular processes and enzyme activities.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	35.4 kDa
AA Sequence	MSSIKIECVLRENYRCGESPVWEEASKCLLFVDIPSKTVCRWDSISNRVQRVGVDAP VSSVALRQSGGYVATIGTKFCALNWEDQSVFILAMVDEDKKNNRFNDGKVPAGRY FAGTMAEETAPAVLERHQGSLYSLFPDHSVKKYFDQVDISNGLDWSLDHKIFYIDS LSYTVDAFDYDLPTGQISNRRTVYKMEKDEQIPDGMCIDVEGKLWWACYNGGRVIRL DPETGKRLQTVKLPVDKTTSCCFGGKDYSEMYVTCARDGMSAEGLLRQPDAGNIFK

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	ITGLGVKGIAPYSYAG
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.

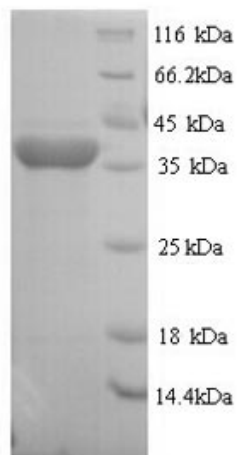
GENE INFORMATION

Gene Name	Rgn regucalcin (senescence marker protein-30) [Rattus norvegicus]
Official Symbol	RGN
Synonyms	RGN; regucalcin; SMP-30; gluconolactonase; Rc; GNL; Reguc;
Gene ID	25106
mRNA Refseq	NM_031546
Protein Refseq	NP_113734
UniProt ID	Q03336

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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