

# Recombinant Rat Secretagogin, EF-Hand Calcium Binding Protein, His-tagged

**Cat. No.** Scgn-4580R    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Secretagogin Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 286 amino acids and having a molecular mass of 33.3 kDa. The Rat SCGN is fused to a 10 a.a. His tag at N-Terminus. The protein's amino acids sequence is identical to UniProtKB/Swiss-Prot entry Q6R556. The Rat SCGN is purified by proprietary chromatographic techniques. |
| <b>Species</b>             | Rat                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>              | Rat                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>         | SCGN is a secreted calcium-binding protein which is found in the cytoplasm. It is related to calbindin D-28K and calretinin. Secretagogin is involved in KCL-stimulated calcium flux and cell proliferation. Secretagogin plays a role in human non-functional pituitary adenomas.                                                                                                       |
| <b>Form</b>                | The sterile filtered concentrated protein solution was lyophilized with 20mM Tris & 50mM NaCl pH-7.5.                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>              | Greater than 95% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                              |
| <b>Physical Appearance</b> | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                |
| <b>Amino acid sequence</b> | MKHHHHHHAS MDNAHRQTQA HLDAACFWQI WQRFDKDEKG YIKETELDAF<br>FDDLLAKFGI EDTLMEENVQ KMKEQLMVGH DISKEGRILM KELASMFLSE                                                                                                                                                                                                                                                                         |

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DENFLLFFRL ETPLDNSVEF MQIWRKYDAD SSGFISAAEL SNFLRDLFLH  
HKKVISEAEL EETSTMMKI FDRNKDGRD LNDLARILAL QENFLQFKM  
DASSTEERKR DFEKIFAHYD VSKTGALEGP EVDGFVKDMM ELVQPSISGV  
DLDKFREILL RHCDVNKDGK IQKSELALCLGLKINP.

**Storage** Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time.

## GENE INFORMATION

**Gene Name** Scgn secretagogin, EF-hand calcium binding protein [ *Rattus norvegicus* ]

**Official Symbol** Scgn

**Synonyms** Scgn; secretagogin; secretagogin, EF-hand calcium binding protein

**Gene ID** 306942

**mRNA Refseq** NM\_201561

**Protein Refseq** NP\_963855

**UniProt ID** Q6R556

**Chromosome Location** 17p11

**Function** calcium ion binding

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