

Recombinant Rat SCGN, His-tagged

Cat. No. SCGN-3741R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 286 AA. MW: 33.3 kDa (calculated). N-terminal His-tag, 10 extra AA (highlighted).
Species	Rat
Source	E.coli
Description	Scgn is a protein that in humans is encoded by the Scgn gene. The encoded protein is a secreted calcium-binding protein which is found in the cytoplasm. It is related to calbindin D-28K and calretinin. This protein is thought to be involved in KCL-stimulated calcium flux and cell proliferation.
Form	Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 20mM Tris buffer, 50mM NaCl, pH 7.5.
Research topic	Diabetology-Autoimmunity; Neural tissue damage markers; Oncology; Pancreatic regulatory molecules.
Purity	>95%
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile. Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting

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QualityControl Test	BCA to determine quantity of theprotein; SDS PAGE to determine purity of the protein.
Sequences of aminoacids	MKHHHHHHAS MDNAHRQTQA HLDAACFWQI WQRFDKDEKG YIKETELDAFFDDLLAKFGI EDTLMEENVQ KMKEQLMVGH DISKEGRILM KELASMFLSE DENFLLFFRL ETPLDNSVEFMQIWRKYDAD SSGFISAAEL SNFLRDLFLH HKKWISEAEL EEYTSTMMKI FDRNKDGRLD LNDLARILALQENFLLQFKM DASSTEERKR DFEKIFAHYD VSKTGALEGP EVDGFVKDMM ELVQPSISGV DLDKFREILLRHCDVNKDGK IQKSELALCL GLKINP
Storage	Store lyophilized protein at -20°C. Lyophilized protein remainsstable until the expiry date when stored at -20°C. Aliquot reconstitutedprotein to avoid repeated freezing/thawing cycles and store at -80°C for longterm storage. Reconstituted protein can be stored at 4°C for a limited periodof time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name	Scgn secretagoin,EF-hand calcium binding protein [Rattus norvegicus]
Official Symbol	Scgn
Synonyms	Scgn; secretagoin, EF-hand calcium binding protein;secretagoin
Gene ID	306942
mRNA Refseq	NM_201561
Protein Refseq	NP_963855
UniProt ID	Q6R556

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Chromosome Location	17p11
Function	calcium ion binding