



Recombinant Protein Technical Manual  
Recombinant Human SCGN/Secretagogin Protein (E. coli, His Tag)  
RPES5122

Product Data:

**Product SKU:** RPES5122

**Size:** 20µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** NP\_008929.2

Protein Information:

**Molecular Mass:** 33.4 kDa

**AP Molecular Mass:** 32 kDa

**Tag:** N-His

**Bio-activity:**

**Purity:** > 97 % as determined by reducing SDS-PAGE.

**Endotoxin:** Please contact us for more information.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Secretagogin; SCGN; SECRET;CALBL;DJ501N12.8;setagin

## Immunogen Information:

**Sequence:** Asp 2-Pro 276

## Background:

Secretagogin, also known as SCGN, is a secreted protein which is detectable in human serum after ischemic neuronal damage. It is a recently described calcium-binding protein. Secretagogin / SCGN is expressed at high levels in the pancreatic islets of Langerhans and to a much lesser extent in the gastrointestinal tract (stomach, small intestine and colon), the adrenal medulla and cortex and the thyroid C-cells. In the brain, the expression of Secretagogin / SCGN is restricted to distinct subtypes of neurons with highest expression in the molecular layer of the cerebellum (stellate and basket cells), in the anterior part of the pituitary gland, in the thalamus, in the hypothalamus and in a subgroup of neocortical neurons. Secretagogin / SCGN is widely expressed in prostatic adenocarcinoma as opposed to adenocarcinomas in other organs. The function of Secretagogin / SCGN is unknown, but it has been suggested in beta-cells to influence calcium-influx and has been observed downregulated in diabetes-prone BB rat islets exposed to cytokines. Secretagogin / SCGN is involved in the calcium metabolism of tumour cells and endothelial cells in a subset of neoplasms of the brain and its coverings. Secretagogin / SCGN is also a novel marker for neuroendocrine differentiation.