

Human SCG3 / Secretogranin 3 Protein (His Tag)

Catalog Number: 16012-H08H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

SGIII; 1B1075; AI385542; Chgd; SgIII

Protein Construction:

A DNA sequence encoding the human SCG3 (AAH14539.1) (Met1-Leu468) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Phe 20

Molecular Mass:

The recombinant human SCG3 comprises 460 amino acids and has a predicted molecular mass of 52.4 kDa. The apparent molecular mass of the protein is approximately 54-63 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

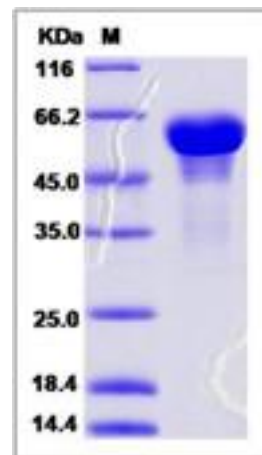
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

SCG3, also known as secretogranin 3, is a member of the chromogranin/secretogranin family. Members of this family may serve as precursors for biologically active peptides. SCG3 is transported to secretory granules (SGs) in neuroendocrine cells. SCG3 binds strongly to chromogranin A (CgA) in an intragranular milieu and targets CgA to SGs in pituitary and pancreatic endocrine cells. With a sucrose density gradient of rat insulinoma-derived INS-1 cell homogenates, SgIII is localized to the SG fraction and is fractionated to the SG membrane (SGM) despite lacking the transmembrane region.

References

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1. Rong YP. et al., 2002, Sheng Wu Wu Li Xue Bao. 34 (4): 411-7.
2. Huttner WB. et al., 1991, Trends Biochem Sci. 16 (1): 27-30.
3. Ozawa H. et al., 1996, Cell Struct Funct. 20 (6): 415-20.

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