

Human SCG2 / Secretogranin II Protein (His Tag)

Catalog Number: 13441-H08H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

SCG2, CHGC

Protein Construction:

A DNA sequence encoding the human SCG2 (AAH22509.1) (Met1-Met617) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: (58.1+30.8) % 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: Pro 17

Molecular Mass:

The recombinant human SCG2 comprises 612 amino acids and has a predicted molecular mass of 70.5 kDa. The apparent molecular mass of the protein is approximately 71 and 65 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

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

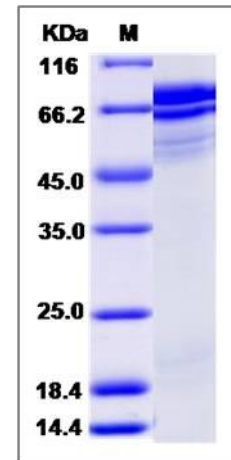
Usage Guide

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.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

SCG2, also known as secretogranin II, is a member of the chromogranin/secretogranin family. SCG2 is widely distributed in nervous and endocrine tissues, and abundant in neuroendocrine granules. SCG2 is involved in the packaging or sorting of peptide hormones and neuropeptides into secretory vesicles. The full-length protein is cleaved to produce the active peptide secretoneurin, which exerts chemotactic effects on specific cell types, and EM66, whose function is unknown. SCG2 is a key AP-1-regulated protein that counteracts NO toxicity and mediates neuronal differentiation of neuroblastoma cells.

References

1. Kirchmair R. et al., 2004, Circulation. 109 (6): 777-83.
2. Ozawa H. et al., 1995, Cell Struct Funct. 20 (6): 415-20.
3. Huttner WB. et al., 1991, Trends Biochem Sci. 16 (1): 27-30.

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