

# Human SCG2 / Secretogranin II Protein (His Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 13441-H08H

## General Information

### Gene Name Synonym:

CHGC; EM66; SgII; SN

### Protein Construction:

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

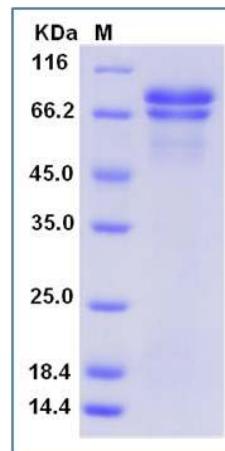
**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** (60.9+35.7)% as determined by SDS-PAGE

### 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.

### 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.

## Protein Description

Kit ligand, also known as Hematopoietic growth factor KL, Mast cell growth factor, Steel factor, Stem cell factor, c-Kit ligand, Kitlg and KITL, is a single-pass type I membrane protein which belongs to the SCF family. KITL / kit ligand also belongs to the family of dimeric transmembrane growth factors. The soluble form of KIT ligand is a secreted protein. Mast cells are thought to participate in a variety of immune responses, such as parasite resistance and the allergic reaction. Mast cell development depends on stem cell factor (Kit ligand) and its receptor, c-Kit. KITL / kit ligand stimulates the proliferation of mast cells. KITL / kit ligand is able to augment the proliferation of both myeloid and lymphoid hematopoietic progenitors in bone marrow culture. Efficient cell surface presentation of KITL / kit ligand is essential for the migration, proliferation, and survival of melanocytes, germ cells, hemopoietic stem cells, and mastocytes. KITL / kit ligand acts synergistically with other cytokines, probably interleukins. KITL / kit ligand plays a crucial role in the development and maintenance of the melanocyte lineage in adult skin. It exerts permanent survival, proliferation and migration functions in Kit receptor-expressing melanocytes. KITL / kit ligand misexpression in some hyperpigmented lesions may open the avenue for Kitl-dependent treatment of pathological skin conditions.

### References

- 1.Nishida,K.et al., 2002, Blood. 99 (5):1866-9.
- 2.Paulhe,F. et al., 2004,J Biol Chem. 279 (53):55545-55.
- 3.Fernandez,S.M. et al., 2008,Biol Reprod. 79 (2):318-27.

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For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>