

# Cynomolgus SG3/Secretogranin 3 Protein

Cat. No. SGS-CM101

## Description

<b>Source</b>	Recombinant Cynomolgus SG3/Secretogranin 3 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe20-Leu468.
<b>Accession</b>	I7G9U8
<b>Molecular Weight</b>	The protein has a predicted MW of 52.14 kDa. Due to glycosylation, the protein migrates to 58-70 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

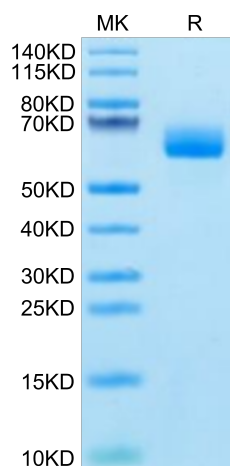
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Secretogranin III (Scg3) is a member of the granin protein family that regulates the biogenesis of secretory granules. Scg3 was recently discovered as an angiogenic factor, expanding its functional role to extrinsic regulation. Unlike many other known angiogenic factors, the pro-angiogenic actions of Scg3 are restricted to pathological conditions. Among thousands of quantified endothelial ligands, Scg3 has the highest binding activity ratio to diabetic vs.

## Assay Data

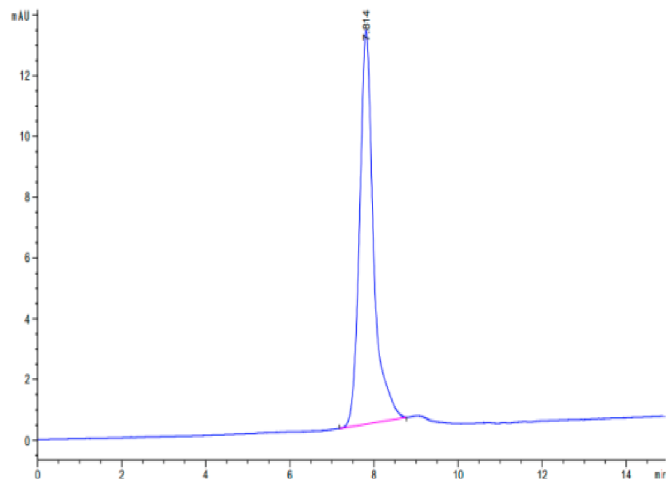
### Tris-Bis PAGE



Cynomolgus SG3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

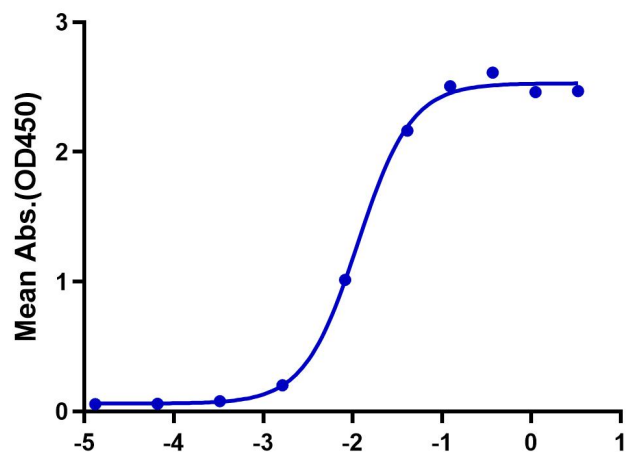
Assay Data



The purity of Cynomolgus SG3 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Cynomolgus SG3, His Tag ELISA**  
0.05µg Cynomolgus SG3, His Tag Per Well



Immobilized Cynomolgus SG3, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-SG3 Antibody, hFc Tag with the EC50 of 11.4ng/ml determined by ELISA.