

Human SG3/Secretogranin 3 Protein

Cat. No. SGS-HM101

Description

Source	Recombinant Human SG3/Secretogranin 3 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Phe20-Leu468.
Accession	Q8WXD2-1
Molecular Weight	The protein has a predicted MW of 52.1 kDa. Due to glycosylation, the protein migrates to 55-68 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μ g by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

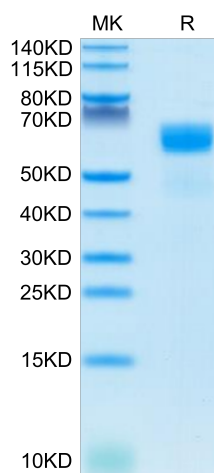
Formulation	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated 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.

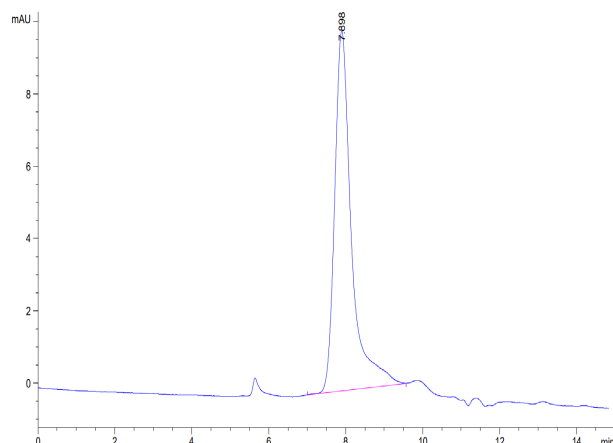
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



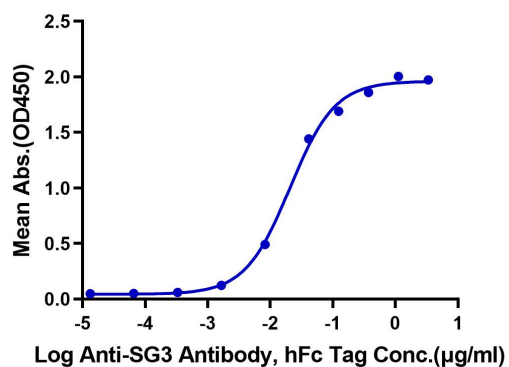
The purity of Human SG3 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human SG3, His Tag ELISA

0.02µg Human SG3, His Tag Per Well



Immobilized Human SG3, His Tag at 0.2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-SG3 Antibody, hFc Tag with the EC50 of 20.6ng/ml determined by ELISA.