

Human SG3/Secretogranin 3 Protein



Cat. No. SGS-HM201

Description	
Source	Recombinant Human SG3/Secretogranin 3 Protein is expressed from HEK293 with XXX tag at the XXX-terminus. It contains Phe20-Leu468.
Accession	Q8WXD2-1
Molecular Weight	The protein has a predicted MW of 76.93 kDa. Due to glycosylation, the protein migrates to 85-105 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 85% as determined by Bis-Tris PAGE

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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.

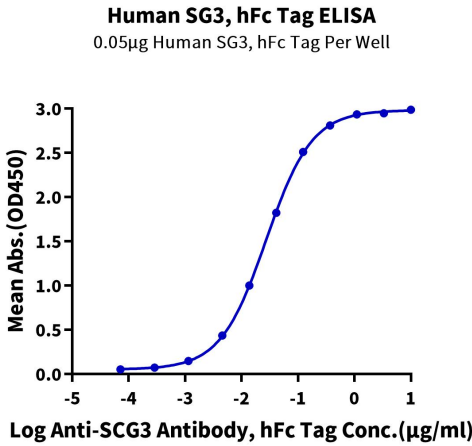
Assay Data

Bis-Tris PAGE



Human SG3 on Bis-Tris PAGE under reduced condition. The purity is greater than 85%.

ELISA Data



Immobilized Human SG3, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-SCG3 Antibody, hFc Tag with the EC50 of 27.4ng/ml determined by ELISA.