

# Human SOST/Sclerostin Protein

Cat. No. SOT-HM201

## Description

<b>Source</b>	Recombinant Human SOST/Sclerostin Protein is expressed from HEK293 with hFc (IgG1) tag at the N-terminus. It contains Gln24-Tyr213.
<b>Accession</b>	Q9BQB4-1
<b>Molecular Weight</b>	The protein has a predicted MW of 47.05 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

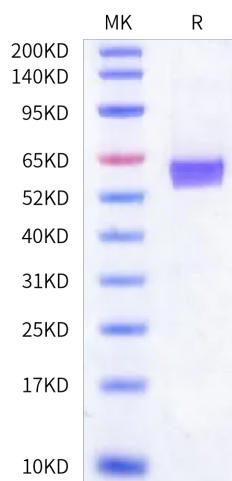
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-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

SOST, also known as sclerostin, is a member of the cerberus/DAN family, a group of secreted glycoproteins characterized by a cysteine-knot motif. SOST is negative regulator of bone growth that acts through inhibition of Wnt signaling and bone formation.

## Assay Data

### Bis-Tris PAGE

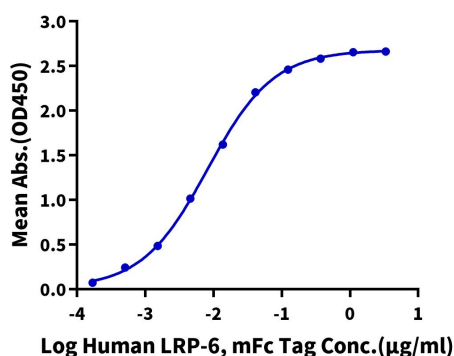


Human SOST on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

#### Human SOST, hFc Tag ELISA

0.1  $\mu\text{g}$  Human SOST, hFc Tag Per Well



Immobilized Human SOST, hFc Tag at 1  $\mu\text{g}/\text{ml}$  (100  $\mu\text{l}/\text{well}$ ) on the plate. Dose response curve for Human LRP-6, mFc Tag with the EC50 of 8.2 ng/ml determined by ELISA.