Biotinylated Mouse SOST / Sclerostin Protein, Avitag™,His Tag (HPLC verified)

Catalog # SOT-M82E3

Synonyms

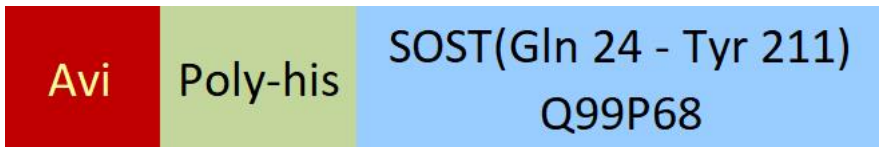
SOST, VBCH

Source

Biotinylated Mouse SOST Protein, Avitag,His Tag (SOT-M82E3) is expressed from human 293 cells (HEK293). It contains AA Gln 24 - Tyr 211 (Accession # Q99P68).

Predicted N-terminus: Gly

Molecular Characterization



This protein carries an Avi tag (Avitag™) at the N-terminus, followed by a polyhistidine tag.

The protein has a calculated MW of 24.7 kDa. The protein migrates as 33-40 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-HPLC.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 0.2 M Arginine, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

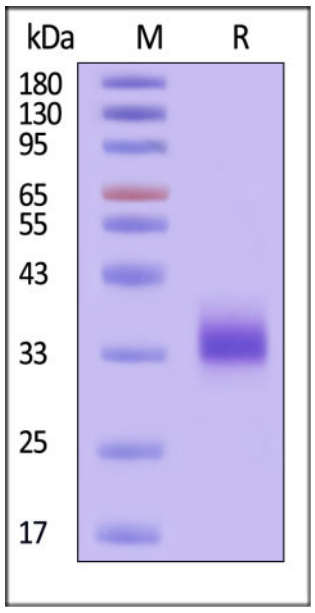
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

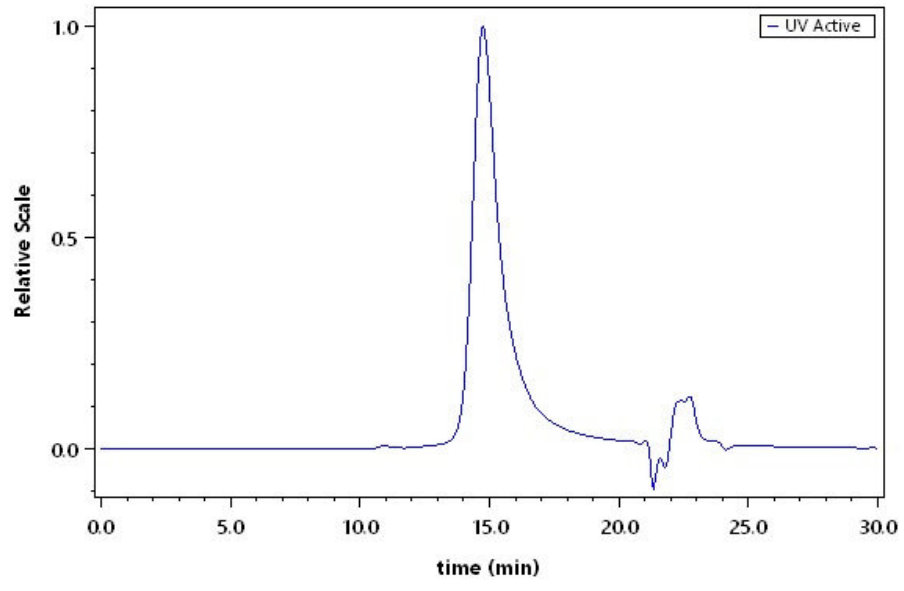
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



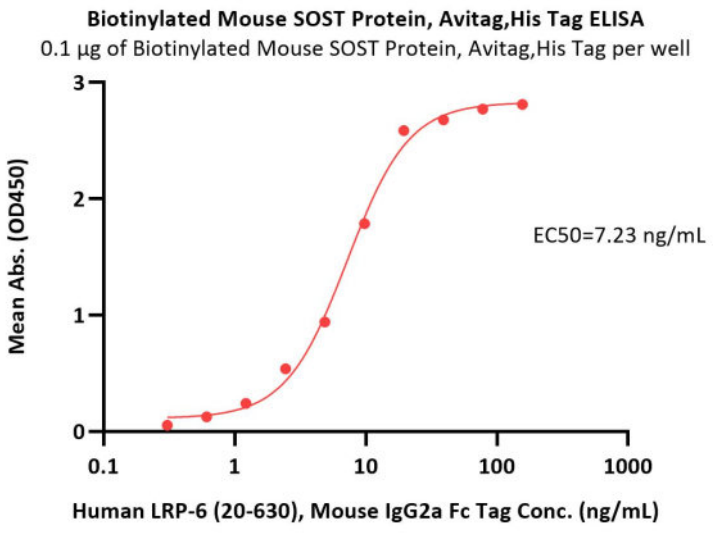
Biotinylated Mouse SOST Protein, Avitag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-HPLC

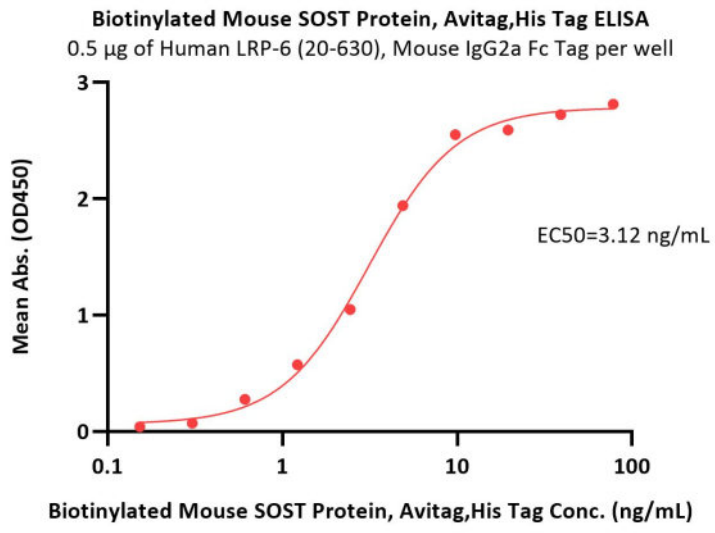


The purity of Biotinylated Mouse SOST Protein, Avitag,His Tag (Cat. No. SOT-M82E3) was greater than 95% as determined by SEC-HPLC.

Bioactivity-ELISA



Immobilized Biotinylated Mouse SOST Protein, Avitag,His Tag (Cat. No. SOT-M82E3) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Human LRP-6 (20-630), Mouse IgG2a Fc Tag (Cat. No. LR6-H5253) with a linear range of 0.3-20 ng/mL (QC tested).



Immobilized Human LRP-6 (20-630), Mouse IgG2a Fc Tag (Cat. No. LR6-H5253) at 5 μg/mL (100 μL/well) can bind Biotinylated Mouse SOST Protein, Avitag,His Tag (Cat. No. SOT-M82E3) with a linear range of 0.2-10 ng/mL (Routinely tested).

Background

Sclerostin is a secreted glycoprotein with a C-terminal cysteine knot-like (CTCK) domain and sequence similarity to the DAN (differential screening-selected gene aberrative in neuroblastoma) family of bone morphogenetic protein (BMP) antagonists. Loss-of-function mutations in this gene are associated with an autosomal-recessive disorder, sclerosteosis, which causes progressive bone overgrowth. A deletion downstream of this gene, which causes reduced sclerostin expression, is associated with a milder form of the disorder called van Buchem disease. [provided by RefSeq, Jul 2008]