

## SOST Protein, Human, Recombinant (hFc)

### General Information

Protein Construction: Gln24-Tyr213

Species: Human

Expression Host: HEK293 Cells

Accession: Q9BQB4-1

Molecular Weight: 47.05 kDa (Predicted); 55-65 kDa (Reducing condition, due to glycosylation)

### QC Testing

Biological Activity: Immobilized Human SOST, hFc Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human LRP-6, mFc Tag with the EC50 of 8.2 ng/ml determined by ELISA (QC Test).

Purity: > 95% as determined by Bis-Tris PAGE

Endotoxin: < 1 EU/µg of the protein as determined by the LAL method.

Formulation: Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

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