

Recombinant Human Sclerostin/SOST Protein

Catalog No.: RP00445 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	50964	Q9BQB4

Tags

C-6xHis

Synonyms

SOST;CDD;DAND6;SOST1;VBCH

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 250 mM NaCl, pH 8.0. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

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.

Basic Information

Description

Recombinant Human Sclerostin/SOST Protein is produced by Human Cell expression system. The target protein is expressed with sequence (Gln24-Tyr213) of human Sclerostin/SOST (Accession #Q9BQB4) fused with a 6xHis tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit Wnt-3a-induced alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED₅₀ for this effect is 1.5-6 μg/mL in the presence of 3 ng/mL Recombinant Mouse Wnt-3a.

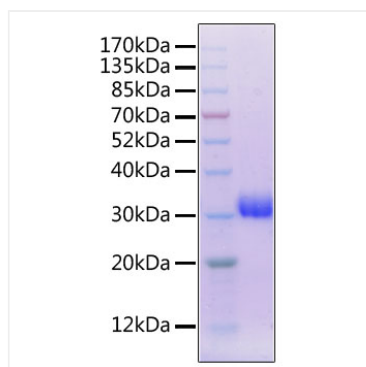
Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

 | www.abclonal.com

Validation Data



Recombinant protein Human Sclerostin/SOST was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 32 kDa.