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# Recombinant human SOST/Sclerostin protein

Catalog Number: ATGP4011

#### PRODUCT INFORMATION

### **Expression system**

**HEK293** 

#### **Domain**

24-213aa

#### UniProt No.

Q9BQB4

#### **NCBI Accession No.**

NP 079513.1

#### **Alternative Names**

SOST, Sclerostin, UNQ2976, PRO7455, PRO7476, CDD, VBCH, DAND6, SOST1

### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

22.7kDa (200aa)

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol

#### **Purity**

> 95% by SDS - PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

SOST, also known as Sclerostin, is a member of the cerberus/DAN family. This protein is produced primarily by the osteocyte but is also expressed in other tissues, and has anti-anabolic effects on bone formation. It was originally believed to be a nonclassical bone morphogenetic protein (BMP) antagonist. More recently, sclerostin has been identified as binding to LRP5/6 receptors and inhibiting the Wnt signaling pathway. The inhibition of the



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Wnt pathway leads to decreased bone formation. Although the underlying mechanisms are unclear, it is believed that the antagonism of BMP-induced bone formation by sclerostin is mediated by Wnt signaling, but not BMP signaling pathways. Mutations in the gene that encodes the sclerostin protein are associated with disorders associated with high bone mass, sclerosteosis and van Buchem disease. Recombinant human SOST/Sclerostin, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

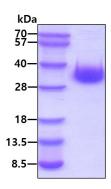
<DGSM>QGWQAF KNDATEIIPE LGEYPEPPPE LENNKTMNRA ENGGRPPHHP FETKDVSEYS CRELHFTRYV TDGPCRSAKP VTELVCSGQC GPARLLPNAI GRGKWWRPSG PDFRCIPDRY RAQRVQLLCP GGEAPRARKV RLVASCKCKR LTRFHNQSEL KDFGTEAARP QKGRKPRPRA RSAKANQAEL ENAY

#### **General References**

Winkler DG, et al. (2003) The EMBO Journal. 22:6267-6276. Li X, et al. (2005) The Journal of Biological Chemistry. 280:19883-19887.

# DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

