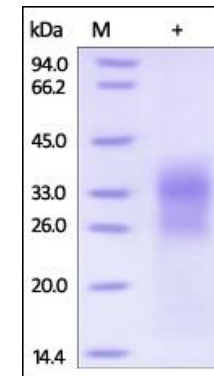


Human CellExp™ Sclerostin, human recombinant

CATALOG NO:	P1145-10 10 µg P1145-50 50 µg
ALTERNATE NAMES:	SOST, VBCH
SOURCE:	HEK 293 cells (Gln 24 – Tyr 213)
PURITY:	> 95% by SDS – PAGE
MOL. WEIGHT:	Human SOST, His Tag is fused with a polyhistidine tag at the N-terminus, and has a calculated MW of 22.5 kDa. The predicted N-terminus is Gln 24. DTT-reduced Protein migrates as 26-40 kDa in SDS-PAGE due to different glycosylation.
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)
FORM:	Lyophilized
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Generally Mannitol or Trehalose is added as a protectant before lyophilization.
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -80°C.
DESCRIPTION:	Sclerostin (SOST) is also known as Sclerosteosis, VBCH, is a secreted glycoprotein with a signal peptide for secretion and a C-terminal cysteine knot-like (CTCK) domain and belongs to the Cerberus/DAN family of bone morphogenetic protein (BMP) antagonists. Sclerostin is produced by the osteocyte and has anti-anabolic effects on bone formation. More recently Sclerostin has been identified as binding to LRP5/6 receptors and inhibiting the Wnt signalling pathway. Wnt pathway inhibition under these circumstances is antagonistic to bone formation (meaning Sclerostin antagonizes bone formation). It has been shown that SOST binds BMP-5, -6, and -7 with high affinity and BMP-2 and -4 with low affinity. Sclerostin production by osteocytes is inhibited by parathyroid hormone, mechanical loading and cytokines including oncostatin M, cardiotrophin-1 and leukemia inhibitory factor. Sclerostin production is increased by calcitonin. Thus, osteoblast

of Sclerostin is associated with the syndrome Sclerosteosis, and reduced sclerostin expression results in a milder form of the disorder called van Buchem disease.



The purity of Human SOST, His Tag was determined by DTT-reduced (+) SDS-PAGE and staining overnight with Coomassie Blue.

RELATED PRODUCT:

- SUMO1, human recombinant (**Cat. No. 4941-100, -1000**)
- Recombinant hSUMO1-AMC (**Cat. No. 6412-50**)
- Human CellExp™ CD160/BY55, human recombinant (**Cat. No. 7386-10, -50**)
- Human CellExp™ CD166/ALCAM, human recombinant (**Cat. No. 7437-10, -50**)
- Human CellExp™ CD172A / SIRP, human recombinant (**Cat. No. 7506-10, -50**)
- Human CellExp™ CD33 / SIGLEC-3, human recombinant (**Cat. No. 7370-10, -50**)
- Human CellExp™ CD47, human recombinant (**Cat. No. 7385-10, -50**)
- Human CellExp™ CD55/DAF, human recombinant (**Cat. No. 7432-10, -50**)
- Human CellExp™ CD58 /LFA-3, human recombinant (**Cat. No. 7427-10, -50**)
- Human CellExp™ CD62E/E-Selectin, human recombinant (**Cat. No. 7434-20, -100**)
- Human CellExp™ CD71 / TFRC / TFR, human recombinant (**Cat. No. 7279-10, -50**)
- Human CellExp™ CD273, human recombinant (**Cat. No. 7369-10, -50**)
- Human CellExp™ CD36, human recombinant (**Cat. No. 7371-10, -50**)
- Human CellExp™ CD87, human recombinant (**Cat. No. 7372-20, -100**)

FOR RESEARCH USE ONLY! Not to be used on humans.