

SOST

Recombinant Human Sclerostin

Catalog No.	CRH013A CRH013B CRH013C	Quantity:	5 µg 25 µg 1.0 mg
Alternate Names:	CDD, VBCH		
Description:	<p>SOST, also known as sclerostin, is a member of the cerberus/DAN family of BMP antagonists, a group of secreted glycoproteins characterized by a cysteine-k-not motif. SOST is expressed by osteoclasts in developing bones of mouse embryos, including both intramembranously forming skull bones and endochondrally forming long bones. SOST plays a physiological role as a negative regulator of bone formation by repressing BMP-induced osteogenesis. SOST has been shown to have unique ligand specificity, binding BMP-5, -6, and -7 with high affinity and BMP-2 and -4 with low affinity. This seems to be the first example of a BMP antagonist being localized to osteoclasts, cells derived from the hematopoietic lineage, that function to degrade bone matrix. Human and murine SOST share 88% amino acid identity.</p> <p>Recombinant human sclerostin is a single non-glycosylated polypeptide chain containing 190 amino acids.</p>		
Gene ID:	50964		
Source:	<i>E. coli</i>		
Molecular Weight:	21.5 kDa		
Formulation:	Lyophilized from a 0.2 µm sterile filtered concentrated solution in PBS, pH 7.4.		
Purity:	>95% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1.0 EU/µg of protein as determined by LAL		
Biological Activity:	Data Not Available		
Amino Acid Sequence:	QGWQAFKND A TEIPELGEY PEPPELENN KTMNRAENG RPPHHPFETK DVSEYSCREL HFTRYVTDGP CRSAPVTEL VCSGQC GPAR LLPNAIGRGK WWRPSGP DFR CIPDRYRAQR VQLLC PGGEA PRARKVRLVA SCKCKRLTRF HNQSELKDFG TEAARPQKGR KPRPRARSAK ANQAELENAY		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	<p>The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application.</p> <p>Avoid repeated freeze/thaw cycles.</p>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.