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32-4924: Recombinant Human Sclerostin

Alternative Name : Sclerostin,SOST,CDD,VBCH.

Description

Source : Escherichia Coli. SOST Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 24-213) containing 200 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 22.8kDa (calculated). Sclerostin (SOST) 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. Sclerostin functions as a negative regulator of bone growth, by inhibiting bone formation. SOST is widely expressed at low levels, with highest levels in the bone, cartilage, kidney, liver, bone marrow and primary osteoblasts differentiated for 21 days. SOST gene defects cause sclerosteosis and bone dysplasia.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	SOST filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.03M Acetate buffer pH-4.0.
Storage condition :	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.
Amino Acid :	MKHHHHHHASQGWQAFKNDA TEIIPELGEY PEPPPELENN KTMNRAENGG RPPHHPFETK DVSEYSCREL HFTRYVTDGP CRSAKPVTEL VCSGQCGPAR LLPNAIGRGK WWRPSGPDFR CIPDRYRAQR VQLLCPGGEA PRARKVRLVA SCKCKRLTRF HNQSELKDFG TEAARPQKGR KPRPRARSAK ANQAELENAY.

Application Note

It is recommended to add 0.1M Acetate buffer pH-4 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/ml. In higher concentrations the solubility of this antigen is limited. SOST is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.