
Product Data Sheet

Product Name: SOST Human, HEK
 Cat. No.: GP24664
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 Cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Sclerostin; SOST; CDD; VBCH.		
Amino Acid Sequence	QGWQAFKND A TEIPELGEY PEPPPELENN KTMNRAENGG RPPHHPFETK DVSEYSCREL HFTRYVTDGP CRSAKPVTEL VCSGQCGPAR LLPNAIGRGK WWRPSGPDFR CIPDRYRAQR VQLLCPGGEA PRARKVRLVA SCKCKRLTRF HNQSELKDFG TEAARPQKGR KPRPRARSAK ANQAELENAY HHHHHH.		
Solubility	It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. SOST is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	SOST filtered (0.4 µm) and lyophilized from 0.5mg/ml in PBS and 5 % (w/v) trehalose, pH 7.4.		

Introduction

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.

Stability

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 one week at 4°C .

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

SOST Human Recombinant produced in HEK293 cells is a single, glycosylated polypeptide chain (a.a 24-213) containing 196 amino acids including a 6 a.a C-terminal His tag. The total molecular mass is 22.4kDa (calculated).

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