

Sclerostin Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RD172244025	(0.025 mg)
Species: Human	RD172244100	(0.1 mg)
Other names: SOST, UNQ2976/PRO7455/PRO7476		

Description

Total 200 AA. MW: 22.8 kDa (calculated). UniProtKB acc.no. Q9BQB4 (Gln24-Tyr213). N-terminal His-tag (10 extra AA). Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

Sclerostin acts as a negative regulator of bone growth. It inhibits bone formation. Defects in sclerostin gene cause sclerosteosis and bone dysplasia.

Research topic

Bone and cartilage metabolism

Amino Acid Sequence

MKHHHHHHS QGWQAFKND A TEIPELGEY PEPPELENN KTMNRAENG RPPHHPFETK DVSEYSCREL HFTRYVTDGP
CRSAKPVTEL VCSGQCGPAR LLPNAIGRGK WWRPSGPDFR CIPDRYRAQR VQLLCPGGEA PRARKVRLVA SCKCKRLTRF
HNQSELKDFG TEAARPQKGR KPRPRARSAK ANQAELENAY

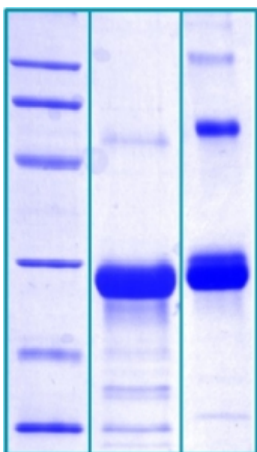
Source

E. coli

Purity

Purity as determined by densitometric image analysis: >90%

SDS-PAGE gel



12% SDS-PAGE separation of Human SOST:

1. M.W. marker - 14, 21, 31, 45, 66, 97 kDa
2. reduced and boiled sample, 2.5µg/lane
3. non-reduced and non-boiled sample, 2.5µg/lane

Endotoxin

< 1.0 EU/ug

Formulation

Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.03M Acetate buffer pH 4.0

Reconstitution

Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/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. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

LAL TEST to determine endotoxin level.

Applications

ELISA, Western blotting

Note

This product is intended for research use only.

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