For Research Use Only

Recombinant Mouse SOST/Sclerostin protein (rFc Tag)

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Catalog Number: Eg3294

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse SOST protein Gln24-Tyr211 (Accession# Q99P68) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
74499

Accession:
Q99P68

Predicted Molecular Mass:
48.3 kDa

SDS-PAGE:
50-65 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Sclerostin (Sost) is a potent negative regulator of bone mass, where it normally inhibits Wnt signaling through interactions with low - density lipoprotein receptor - related protein (LRP) 5/6 co - receptors. Expression of the gene product sclerostin in bone is restricted to osteocytes. In the absence of Sost protein, patients develop two types of hyperostosis, sclerosteosis and van Buchem disease. Sclerosteosis and Van Buchem disease are two closely related bone disorders characterized by progressive bone thickening due to increased bone formation. Sclerosteosis is associated with mutations in the SOST gene and Van Buchem disease with a 52 kb deletion downstream of the SOST gene that probably affects transcription of the gene.

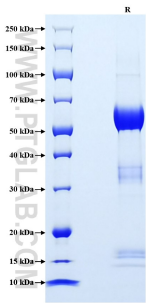
References

1.van Bezooijen, et al. (2005) Biochemistry.16(3):319-327.
2.Chang Jiun C, et al. (2018) Biochemistry.33(6):1105-1113.
3.Sun Lisha, et al. (2022) Biochemistry.21(1):228.

Synonyms

Sclerostin, Sost, SOST/Sclerostin

Selected Validation Data



Purity of Recombinant Mouse SOST was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.