

TECHNICAL DATA SHEET

Recombinant Human Sclerostin (Carrier-free)

Catalog Number: 21-9231

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human Sclerostin (Carrier-free)

DESCRIPTION

Human sclerostin, is a glycoprotein member of the Cerberus/DAN family, a group of secreted glycoproteins characterized by the conserved spacing of six cysteine residues that form a cysteine-knot motif. Sclerostin is a putative BMP antagonist and a negative regulator of bone growth. It is primarily expressed by osteocytes but is also found in bone, cartilage, kidney, liver, and bone marrow. CHO cell-derived Recombinant Human Sclerostin is a 190-amino-acid-length glycoprotein with a calculated molecular weight of 21.5 kDa. As a result of glycosylation, Recombinant Human Sclerostin migrates with an apparent molecular mass of approximately 28-35 kDa by SDS-PAGE gel, under non-reducing conditions.

MOLECULAR MASS

21.5 kDa

AMINO ACID SEQUENCE

QGWQAFKND A TEIIPELGEY PEPPELENN KTMNRAENGG RPPHHPFETK DVSEYSCREL HFTRYVTDGP CRS AKPVTEL VCSGQC GPAR
LLPNAIGRGK WWRPSGPDFR CIPDRYRAQR VQLLCPGGEA PRARKVRLVA SCKCKRLTRF HNQSELKDFG TEAARPQKGR KPRPRARSAK
ANQAELENAY

SOURCE

CHO

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

N/A

BIOACTIVITY

Determined by its ability to downregulate alkaline phosphatase activity in differentiating MC3T3-E1 cells in the presence of 20ng/ml murine Wnt3a.

RESEARCH AREAS

Bone/Skeletal/Cartilage, Diabetes/Weight Regulation, Stem Cells & Differentiation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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