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

QGWQAFKNDA TEIIPELGEY PEPPPELENN KTMNRAENGG RPPHHPFETK DVSEYSCREL HFTRYVTDGP CRSAKPVTEL VCSGQCGPAR LLPNAIGRGK WWRPSGPDFR CIPDRYRAQR VQLLCPGGEA PRARKVRLVA SCKCKRLTRF HNQSELKDFG TEAARPQKGR KPRPRARSAK ANQAELENAY

SOURCE	APPLICATIONS	PURITY	STORAGE
CHO	Bioassay	95 %	-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 Wnt□3a.

RESEARCH AREAS

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

RECONSTITUTION

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

REFERENCES