

TECHNICAL DATA SHEET

Recombinant Human Osteopontin (Carrier-Free)

Catalog Number: 21-9083

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human Osteopontin (Carrier-Free)

DESCRIPTION

Osteopontin is a secreted glycoprotein that functions as a ligand to alphavbeta3 integrin and possibly other receptors. It binds tightly to hydroxyapatite and can act as a structural component of the extracellular mineralized matrix.

MOLECULAR MASS

Recombinant human Osteopontin is a 298 amino acid protein, which, due to glycosylation, migrates at an apparent molecular weight of 60.0-65.0 kDa by SDS-PAGE analysis under reducing conditions.

AMINO ACID SEQUENCE

IPVKQADSGS SEEKQLYNKY PDAVATWLNQ DPSQKQNLLA PQNAVSSEET NDFKQETLPS KSNESHDMMD DMDDEDDDDH VDSQDSIDSN
 DSDDVDDTDD SHQSDESHHS DESDELVTDF PTDLPATEVF TPVVPTVDY DGRGDSVYVG LRSKSKKFRR PDIQYPDATD EDITSHMESE ELNGAYKAIP
 VAQDLNAPSD WDSRGKDSYE TSQLDDQSAE THSHKQSRLY KRKANDESNE HSDVIDSQEL SKVSREFHSH EFHSHEDMLV VDPKSKEEDK
 HLKFRISHL DSASSEVN

SOURCE

HEK293 cells

APPLICATIONS

Bioassay

PURITY

97 %

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 (<1EU/µg).

AUTHENTICITY

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

CROSS REACTIVITY

Human, Mouse

BIOACTIVITY

Determined by its ability to chemoattract human monocytes using a concentration range of 10.0-100.0 ng/ml.

RESEARCH AREAS

Bones, Skeletal, Cartilage, Cancer

RECONSTITUTION

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

REFERENCES

Junk, D.J. Oncostatin M promotes cancer cell plasticity through cooperative STAT3-SMAD3 signaling. 2017. Oncogene. Liu, Y. A Sensitized IGF1 Treatment Restores Corticospinal Axon-Dependent Functions. 2017. Neuron.

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.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.