

TECHNICAL DATA SHEET

Recombinant Human NOV (Carrier-Free)

Catalog Number: 21-9080

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human NOV (Carrier-Free)

DESCRIPTION

NOV is a member of the CCN family of secreted, cysteine-rich regulatory proteins. The full length NOV protein contains four structural domains that confer distinct, and sometimes opposing, biological activities. Elevated expression of NOV is associated with certain tumors, including Wilm's tumor and most nephroblastomas. It is composed of four distinct structural domains (modules): the IGF binding protein (IGFBP) domain; the von Willebrand Factor C (VWFC) domain; the Thrombospondin type-I (TSP type-1) domain; and a C-terminal cysteine knot-like domain (CTCK).

MOLECULAR MASS

Recombinant Human NOV is a 36.2 kDa protein containing 331 amino acid residues.

AMINO ACID SEQUENCE

MQVAATQRCP PQCPRGCPAT PPTCAPGVRA VLDGCSCLLV CARQRGESCS DLEPCDESSG LYCDRSADPS NQTGICTAVE GDNCVFDGVI
 YRSGEKFQPS CKFQCTCRDG QIGCVPRCQL DVLLPEPNCP APRKVEVPGE CCEKWICGPD EEDSLGGLTL AAYRPEATLG VEVSDSSVNC
 IEQTTEWTAC SKSCGMGFST RVTNRRNQCE MLKQTRLCMV RPCEQEPEQP TDKKGKKCLR TTKSLKAIHL QFKNCTSLHT YKPRFCGVCS
 DGRCTPHNT KTIQAEFQCS PGQIVKPPVM VIGTCTCHTN CPKNNEAFLQ ELELKTTRGK M

SOURCE

E.coli

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 (<1EU/μg).

AUTHENTICITY

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

CROSS REACTIVITY

Chicken, Human, Mouse

BIOACTIVITY

Determined by a cell proliferation assay using BALB/c 3T3 cells. The expected ED50 for this effect is 1.0-2.0 ug/ml

RESEARCH AREAS

Proliferation, Angiogenesis/Cardiovascular, Cancer

RECONSTITUTION

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

REFERENCES

McCallum, L. A novel mechanism for BCR-ABL action: stimulated secretion of CCN3 is involved in growth and differentiation regulation. 2006.Blood; 108 (5):1716-23. Rydziel, S. Nephroblastoma overexpressed (nov) inhibits osteoblastogenesis and causes osteopenia. 2007. The Journal of Biological Chemistry; 282(27):19762-72.

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