

TECHNICAL DATA SHEET

Recombinant Human WNT-1 (Carrier-Free)

Catalog Number: 21-9073

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human WNT-1 (Carrier-Free)

DESCRIPTION

Wnt-1 is a secreted protein that signals through the Frizzled family of cell surface receptors, and is required for normal embryonic development. Wnt-1 activation induces a complex signaling cascade that ultimately leads to the increased expression of over fifty genes. An important component of Wnt-1 signaling is the stabilization, and resulting accumulation, of the intracellular signaling protein, Beta-catenin.

MOLECULAR MASS

Recombinant Human Wnt-1 is a 38.4 kDa, non-glycosylated protein containing 343 amino acid residues.

AMINO ACID SEQUENCE

ANSSGRWWGI VNVASSTNLL TDSKSLQLVL EPSLQLLSRK QRRLIRQNPG ILHSVSGGLQ SAVRECKWQF RNRWNCPTA PGPHLFGKIV
NRGCRETAFI FAITSAGVTH SVARSCSEGS IESCTCDYRR RGPGGPDWHW GGCSNDIDFG RLFGRFVDS GEKGRDLRFL MNLHNNEAGR
TTVFSEMRQE CKCHGMSGSC TVRTCWMRLP TLRAVGDVLR DRFDGASRVL YGNRGSNRAS RAELLRLEPE DPAHKPPSPH DLVYFEKSPN
FCTYSGRLGT AGTAGRACNS SSPALDGCEL LCCGRGHRTR TQRVTERCNC TFHWCCHVSC RNCTHTRVLH ECL

SOURCE

E.coli

APPLICATIONS

Bioassay

PURITY

98 %

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, Monkey, Mouse

BIOACTIVITY

The ED50 was determined by its ability to enhance BMP-2 induced alkaline phosphatase production by Mouse ATDC5 cells. The expected ED50 for this effect is 1.5 - 2.5 ng/ml in the presence of 200 ng/ml of human BMP-2.

RESEARCH AREAS

Inflammation, Stem Cells & Differentiation, Cancer

RECONSTITUTION

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

REFERENCES

Yang, L. Phosphorylation of p68 RNA helicase plays a role in platelet-derived growth factor-induced cell proliferation by up-regulating cyclin D1 and c-Myc expression. 2007. *The Journal of Biological Chemistry*; 282(23):16811-9. Williamson, D. Role for amplification and expression of glypican-5 in rhabdomyosarcoma. 2007. *Cancer Research*; 67(1):57-65.

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