

TECHNICAL DATA SHEET

Recombinant Human WISP-1 (Carrier-Free)

Catalog Number: 21-9074

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human WISP-1 (Carrier-Free)

DESCRIPTION

WISP-1 is a member of the CCN family of secreted, cysteine-rich regulatory proteins. It is expressed in the heart, kidney, lung, pancreas, placenta, ovary, small intestine and spleen. 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-1 repeat domain, and a C-terminal cysteine knot-like (CTCK) domain.

MOLECULAR MASS

Recombinant Human WISP-1 is a 38.1 kDa protein containing 345 amino acid residues.

AMINO ACID SEQUENCE

TALSPAPTTM DFTPAPLEDT SSRPQFCKWP CECPPSPPRC PLGVSLITDG CECCKMCAQQ LGDNCTEAAI CDPHRGLYCD YSGDRPRYAI
 GVCAQVVGVG CVLDGVRYNN GQSFQPNCKY NCTCIDGAVG CTPLCLRVRP PRLWCPPHRR VSIPGHCEQ WVCEDDAKRP RKTAPRDTGA
 FDAVGEVEAW HRNCIAYTSP WSPCSTSCGL GVSTRISNVN AQCWPEQESR LCNLRPCDVD IHTLIKAGKK CLAVYQPEAS MNFTLAGCIS
 TRSYQPKYCG VCMDNRCCIP YKSKTIDVSF QCPDGLGFSR QVLWINACFC NLSCRNPNDI FADLESYPDF SEIAN

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

Mouse, Rat

BIOACTIVITY

The ED50 was determined by the dose-dependant proliferation of the MCF-7 cell line. The expected ED50 for this effect is 1.0-3.0 µg/ml.

RESEARCH AREAS

Bones, Skeletal, Cartilage, Cancer

RECONSTITUTION

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

REFERENCES

Colston, J.T. Wnt-induced secreted protein-1 is a prohypertrophic and profibrotic growth factor. 2007. The American Journal of Physiology; 293(3):H1839-46.
 Venkatachalam, K. WISP1, a Pro-mitogenic, Pro-survival Factor, Mediates Tumor Necrosis Factor- α (TNF- α)-stimulated Cardiac Fibroblast Proliferation but Inhibits TNF- α -induced Cardiomyocyte Death. 2009. The Journal of Biological Chemistry; 284(21):14414-27.

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