



# Recombinant Human WISP-1

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

|                  |                            |
|------------------|----------------------------|
| <b>Cat.-no.:</b> | <b>100-365S</b>            |
| Size:            | 5 µg                       |
| Lot. No.:        | According to product label |

### Sequence

TALSPAPTMM DFTPAPLEDT SSRPQFCKWP CECPPSPPRC  
 PLGVSLITDG CECKMCAQQ LGDNCTEAAI CDPHRGLYCD  
 YSGDRPRYAI GVCAQVVGVG CVLDGVRVYNN GQSFQPNCKY  
 NCTCIDGAVG CTPLCLRVRP PRLWCPHPRR VSIPGHCCEQ  
 WVCEDDAKRP RKTAPRDTGA FDAVGEVEAW HRNCIAYTSP  
 WSPCSTSCGL GVSTRISNVN AQCWPEQESR LCNLRPCDVD  
 IHTLIKAGKK CLAVYQPEAS MNFTLAGCIS TRSYQPKYCG  
 VCMDNRCCIP YKSKTIDVSF QCPDGLGFSR QVLWINACFC  
 NLSCRPNPDI FADLESYPDF SEIAN

## Scientific Background

|                        |                                      |
|------------------------|--------------------------------------|
| <b>Gene-ID (NCBI):</b> | 8840                                 |
| <b>Synonyms:</b>       | WISP1; CCN4; WISP1c; WISP1i; WISP1tc |

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. WISP-1 is a beta catenin regulated protein that can contribute to tumorigenesis and has also been shown to play a role in bone development and fracture repair. Human WISP-1 is a 38.1 kDa protein containing 346 amino acid residues. 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 (TSP type-1) domain, and a C-terminal cystine knot-like (CTCK) domain.

### Database References

|                        |           |
|------------------------|-----------|
| <b>Protein RefSeq:</b> | NP_003873 |
| <b>Uniprot ID:</b>     | O95388    |
| <b>mRNA RefSeq:</b>    | NM_003882 |

## Product Specifications

|                        |                                    |
|------------------------|------------------------------------|
| <b>Expressed in</b>    | E. coli                            |
| <b>Purity</b>          | >98% by SDS-PAGE & HPLC analysis   |
| <b>Endotoxin level</b> | < 0.1 ng /µg of protein (<1EU/µg). |
| <b>Formulation</b>     | lyophilized                        |
| <b>Length (aa):</b>    | 346                                |
| <b>MW:</b>             | 38.1 kDa                           |

**Biological Activity:** 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.



**AVOID REPEATED FREEZE AND THAW CYCLES!**