

Active Recombinant Human WNT1 Inducible Signaling Pathway Protein 1

Cat. No. WISP1-562H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human WISP1 was expressed in *E. Coli*.

Species Human

Source E.coli

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. 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.

Amino Acid Sequence

TALSPAPTTM DFTPAPLEDT SSRPQFCKWP CECPPSPPRC PLGV SLITDG
 CECKMCAQQ LGDNCTEAAI CDPHRGLYCD YSGDRPRYAI GVCAQVVGVG
 CVLDGVRVNN GQSFQPNCKY NCTCIDGAVG CTPLC LRVRP PRLWCPHPRR
 VSIPGHCCEQ WVCEDDAKRP RKTAPRDTGA FDAVGEVEAW HRNCIAYTSP
 WSPCSTSCGL GVSTRISNVN AQCWP EQESR LCNLRPCDVD IHTLIKAGKK
 CLAVYQPEAS MNFTLAGCIS TRSYQPKYCG VCMDNRCCIP YKSKTIDVSF
 QCPDGLGFSR QVLWI NACFC NLSCRNPNDI FADLESYPDF SEIAN

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Supplied	Lyophilized powder from with no additives.
Purity	>98% by SDS-Page and HPLC analysis. Endotoxin level is less than 0.1ng per ug (1EU/ug) of protein.
Reconstitution	Lyophilized material should be reconstituted in water to a concentration of 0.1-1mg/ml. Allow to set at least 30 minutes at 4°C, mix well. If desired, tighten cap and centrifuge for 1 minute at 1000rpm to concentrate material in vial. This solution can be diluted into other buffered solutions or stored at 4°C for up to 1 week or at -20°C for future use.
Activity	The ED ₅₀ was determined by the dose-dependant proliferation of the MCF-7 cell line. The expected ED ₅₀ for this effect is 1-3 g/ml.
Storage	The lyophilized powder is stable at room temperature for a few weeks but it is best stored desiccated at -20°C. Reconstituted WISP-3 should be stored in working aliquots at -20°C. Avoid frequent freeze thaw cycles.

GENE INFORMATION

Gene Name	WISP1 WNT1 inducible signaling pathway protein 1 [Homo sapiens]
Synonyms	WISP1; WNT1 inducible signaling pathway protein 1; CCN4; WNT1 induced secreted protein 1; wnt-1 signaling pathway protein 1; Wnt-1 inducible signaling pathway protein 1 WISP1c; WISP1i; WISP1tc; WNT1-inducible-signaling pathway protein 1; WISP-1; Wnt-1-induced secreted protein; WISP1c; WISP1i; WISP1t
Gene ID	8840
mRNA Refseq	NM_003882

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Protein Refseq	NP_003873
MIM	603398
UniProt ID	O95388
Chromosome Location	8q24.22
Function	insulin-like growth factor binding; protein binding

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