

Active Recombinant Human WNT1 Inducible Signaling Pathway Protein 3

Cat. No. WISP3-184H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WISP3 was expressed in <i>E. Coli</i> .
Species	Human
Source	E.coli
Description	WISP-3 is a member of the CCN family of secreted cysteine rich regulatory proteins. It is predominantly expressed in the adult kidney, testis and fetal kidney and weaker expression in placenta, ovary, prostate, small intestine, and skeletally-derived cells. WISP-3 is required for normal postnatal skeletal growth and cartilage homeostasis. Human WISP-3 is a 36.8 kDa protein containing 331 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	TGPLDTTPEG RPGEVSDAPQ RKQFCHWPCK CPQQKPRCPP GVSL VRDGC CCKICAKQPG EICNEADLCD PHKGLYCDYS VDRPRYETGV CAYLVAVGCE FNQVHYHNGQ VFQPNPLFSC LCVSGAIGCT PLFIP KLAGS HCSGAKGGKK SDQSNCSLEP LLQQLSTSYK TMPAYRNLPL IWKKKCLVQA TKWTPCSRTC GMGISNRVTN ENSNCEMRKE KRLC YIQPCD SNILKTIKIP KGKTCQPTFQ LSKAEKFVFS GCSSTQSYKP TFCGICLDKR CCIPNKS KMI TIQFDCPNEG SFKWKMLWIT SCVC QRNCRE PGDIFSELKI L

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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 0.2-0.3 g/ml.
Note	If this material is not to be used for coating or labeling (or other applications requiring carrier free material), the addition of 0.1% BSA or HSA to dilution buffers or dilution in sterile culture media is recommended to enhance stability and minimize absorption to vial. Ideally, maintain stock >20ug/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	WISP3 WNT1 inducible signaling pathway protein 3 [Homo sapiens]
Synonyms	WISP3; WNT1 inducible signaling pathway protein 3; PPD; CCN6; LIBC; PPAC; MGC125987; MGC125988; MGC125989; OTTHUMP00000017037; OTTHUMP00000017038; OTTHUMP00000040421; WISP-

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3;UNQ462/PRO790/PRO956

Gene ID

8838

mRNA Refseq

NM_003880

Protein Refseq

NP_003871

MIM

603400

UniProt ID

O95389

**Chromosome
Location**

6q21

Function

growth factor activity; insulin-like growth factor binding

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