

Recombinant Human WISP3, Fc-tagged

Cat. No. WISP3-31250TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human WISP3, a 36.8 kDa protein containing 331 amino acid residues and composed of four distinct structural domains; the IGF binding protein (IGFBP) domain, the von Willebrand Factor C (VWFC) domain, the thrombospondin type-1 repeat (TSP type-

Species Human

Source E.coli

Description This gene encodes a member of the WNT1 inducible signaling pathway (WISP) protein subfamily, which belongs to the connective tissue growth factor (CTGF) family. WNT1 is a member of a family of cysteine-rich, glycosylated signaling proteins that mediate diverse developmental processes. The CTGF family members are characterized by four conserved cysteine-rich domains: insulin-like growth factor-binding domain, von Willebrand factor type C module, thrombospondin domain and C-terminal cystine knot-like domain. This gene is overexpressed in colon tumors. It may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. Mutations of this gene are associated with progressive pseudorheumatoid dysplasia, an autosomal recessive skeletal disorder, indicating that the gene is essential for normal postnatal skeletal growth and cartilage homeostasis. Multiple transcript variants encoding different isoforms have been found for this gene.

Conjugation Fc

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Tissue specificity	Predominant expression in adult kidney and testis and fetal kidney. Weaker expression found in placenta, ovary, prostate and small intestine. Also expressed in skeletally-derived cells such as synoviocytes and articular cartilage chondrocytes.
Biological activity	Biological Activity : The ED50 was determined by the dose-dependant proliferation of the MCF-7 cell line. The expected ED50 for this effect is 0.2-0.3 µg/ml.
Form	Lyophilised
Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.
Sequences of amino acids	TGPLDTTPEG RPGEVSDAPQ RKQFCHWPCK CPQQKPRCPP GVSLVRDGCG CCKICAKQPG EICNEADLCD PHKGLYCDYS VDRPRYETGV CAYLVAVGCE FNQVHYHNGQ VFQPNPLFSC LCVSGAIGCT PLFIPKLAGS HCSGAKGGKK SDQSNCSLEP LLQQLSTSYK TMPAYRNLPL IWKKKCLVQA TKWTPCSRTE GMGISNRVTN ENSNCEMRKE KRLCYIQPCD SNILKTIKIP KGKTCQPTFQ LSKAEKFVFS GCSSTQSYKP TFCGICLDKR CCIPNKSKMI TIQFDCPNEG SFKWKMLWIT SCVCQRNCRE PGDIFSELKI L
Sequence Similarities	Belongs to the CCN family.Contains 1 CTCK (C-terminal cystine knot-like) domain.Contains 1 IGF1P N-terminal domain.Contains 1 TSP type-1 domain.

GENE INFORMATION

Gene Name	WISP3 WNT1 inducible signaling pathway protein 3 [Homo sapiens]
Official Symbol	WISP3
Synonyms	WISP3; WNT1 inducible signaling pathway protein 3; WNT1-inducible-signaling pathway protein 3; CCN6;

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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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