Recombinant Human WISP2

Cat. No. WISP2-30865TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WISP2, a 24.8 kDa protein of 228 amino acid residues.
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 (CT) domain. The encoded protein lacks the CT domain which is implicated in dimerization and heparin binding. It is 72% identical to the mouse protein at the amino acid level. This gene may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. Its expression in colon tumors is reduced while the other two WISP members are overexpressed in colon tumors. It is expressed at high levels in bone tissue, and may play an important role in modulating bone turnover.
Tissue specificity	Expressed in primary osteoblasts, fibroblasts, ovary, testes, and heart.
Biological activity	Biological Activity :The ED50 was determined by its ability to inhibit IGF-II induced proliferation of MCF-7 is between 10-20 ng/ml in the presence of 15 ng/ml of human

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	IGF-II.
Form	Lyophilised
Purity	>95% by SDS-PAGE
Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.
Sequences of amino acids	MQLCPTPCTC PWPPPRCPLG VPLVLDGCGC CRVCARRLGE PCDQLHVCDA SQGLVCQPGA GPGGRGALCL LAEDDSSCEV NGRLYREGET FQPHCSIRCR CEDGGFTCVP LCSEDVRLPS WDCPHPRRVE VLGKCCPEWV CGQGGGLGTQ PLPAQGPQFS GLVSSLPPGV PCPEWSTAWG PCSTTCGLGM ATRVSNQNRF CRLETQRRLC LSRPCPPSRG RSPQNSAF
Sequence Similarities	Belongs to the CCN family.Contains 1 IGFBP N-terminal domain.Contains 1 TSP type-1 domain.Contains 1 VWFC domain.

GENE INFORMATION

Gene Name	WISP2 WNT1 inducible signaling pathway protein 2 [Homo sapiens]
Official Symbol	WISP2
Synonyms	WISP2; WNT1 inducible signaling pathway protein 2; WNT1-inducible-signaling pathway protein 2; CCN5; CT58; CTGF L;
Gene ID	8839
mRNA Refseq	NM_003881

Protein Refseq	NP_003872
MIM	603399
Uniprot ID	O76076
Chromosome Location	20q13.12
Function	insulin-like growth factor binding;

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