Active Recombinant Human WISP3 Protein

Cat. No. WISP3-530H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WISP3, transcript variant 1, was expressed in E. coli.
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.
Form	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bio-activity	ED50 was determined by the dose-dependant proliferation of the MCF-7 cell line. The

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	expected ED50 for this effect is 0.2-0.3 ug/ml.
Molecular Mass	36.8 kDa
AA Sequence	TGPLDTTPEGRPGEVSDAPQRKQFCHWPCKCPQQKPRCPPGVSLVRDGCGCCKI CAKQPGEICNEADLCDPHKGLYCDYSVDRPRYETGVCAYLVAVGCEFNQVHYHNG QVFQPNPLFSCLCVSGAIGCTPLFIPKLAGSHCSGAKGGKKSDQSNCSLEPLLQQLS TSYKTMPAYRNLPLIWKKKCLVQATKWTPCSRTCGMGISNRVTNENSNCEMRKEK RLCYIQPCDSNILKTIKIPKGKTCQPTFQLSKAEKFVFSGCSSTQSYKPTFCGICLDKR CCIPNKSKMITIQFDCPNEGSFKWKMLWITSCVCQRNCREPGDIFSELKIL
Endotoxin	Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	Resuspend the protein in the desired concentration in proper buffer

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; WISP-3; CCN family member 6; PPD; LIBC; PPAC; MGC125987; MGC125988; MGC125989;
Gene ID	8838
mRNA Refseq	NM_003880

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Protein Refseq	NP_003871
MIM	603400
UniProt ID	O95389

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