Recombinant Human CCN4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CCN4-3463H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WISP1 MS Standard C13 and N15-labeled recombinant protein (NP_003873) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. It is expressed at a high level in fibroblast cells, and overexpressed in colon tumors. The encoded protein binds to decorin and biglycan, two members of a family of small leucine-rich proteoglycans present in the extracellular matrix of connective tissue, and possibly prevents the inhibitory activity of decorin and biglycan in tumor cell proliferation. It also attenuates p53-mediated apoptosis in response to DNA damage through activation of the Akt kinase. It is 83% identical to the mouse protein at the amino acid level. Multiple alternatively spliced transcript variants have been identified.

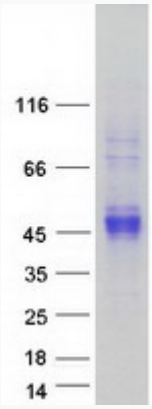
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Molecular Mass	40.3 kDa
AA Sequence	MRWFLPWTLAAVTAAAASTVLATALSPAPTTMDFTPAPLEDTSSRPQFCKWPCECP PSPPRCPLGVSLITDGCECCKMCAQQLGDNCTEAAICDPHRGLYCDYSGDRPRYAI GVCAQVVGVGCVLDGVRYNNGQSFQPNCKYNCTCIDGAVGCTPLCLRVRPPRLW CPHPRRVSIPGHCCEQWVCEDDAKRPRKTAPRDTGAFDAVGEVEAWHRNCIAYTS PWSPCSTSCGLGVSTRISNVNAQCWPEQESRLCNLRPCDVDIHTLIKAGKKCLAVY QPEASMNFTLAGCISTRSYQPKYCGVCMDNRCCIPYKSKTIDVSFQCPDGLGFSRQ VLWINACFCNLSCRNPNDIFADLESYPDFSEIANTRTRPLEQKLISEEDLAANDILDYK DDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CCN4 cellular communication network factor 4 [Homo sapiens (human)]
Official Symbol	CCN4
Synonyms	CCN4; cellular communication network factor 4; WISP1; WISP1c; WISP1i; WISP1tc; WISP1-OT1; WISP1-UT1; CCN family member 4; WISP1 3'UTR-associated RNA 1; WISP1 overlapping transcript 1 (non-protein coding); WNT1 induced secreted protein

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	1; WNT1 inducible signaling pathway protein 1
Gene ID	8840
mRNA Refseq	NM_003882
Protein Refseq	NP_003873
MIM	603398
UniProt ID	O95388
SDS-PAGE	

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