

Recombinant Full Length Human CCN4 Protein, C-Flag-tagged

Cat. No. CCN4-1805HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CCN4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	38 kDa
AA Sequence	MRWFLPWTLAAVTAAASTVLATALSPAPTTMDFTPAPLEDTSSRPQFCKWPCECP PSPPRCPLGVSLIT DGCECCKMCAQQLGDNCTEAAICDPHRGLYCDYSGDRPRYAI GVCAQVVGVGCVLDGVRYNNGQSFQPNK KYNCTCIDGAVGCTPLCLRVPPRLW CPHPRRVSIPIGHCEQWVCEDDAKRPRKTAPRDTGAFDAVGEVE AWHRNCAIYTS PWSPCSTSCGLGVSTRISNVNAQCWPEQESRLCNLRPCDVDIHTLIKAGKKCLAVY QPE ASMNFTLAGCISTRSYQPKYCGVCMDNRCCIPYKSKTIDVSFQCPDGLGFSRQ VLWINACFCNLSCRNPV DIFADLESYPDFSEIAN TRTRPLEQKLISEEDLAANDILDY KDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - Wnt Signaling pathway
Full Length	Full L.

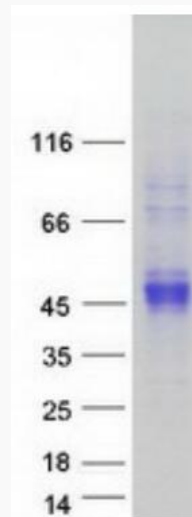
GENE INFORMATION

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Gene Name	CCN4 cellular communication network factor 4 [Homo sapiens (human)]
Official Symbol	CCN4
Synonyms	WISP1; WISP1c; WISP1i; WISP1tc; WISP1-OT1; WISP1-UT1
Gene ID	8840
mRNA Refseq	NM_003882.4
Protein Refseq	NP_003873.1
MIM	603398
UniProt ID	O95388



Coomassie blue staining of purified CCN4 protein.

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