

Recombinant Human cellular communication network factor 4 Protein, His tagged

Cat. No. CCN4-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human cellular communication network factor 4 Protein (23-367 aa) with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	23-367aa
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

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	level. Multiple alternatively spliced transcript variants have been identified.
Tag	C-His
Molecular Mass	39 kDa
AA Sequence	MTALSPAPTTMDFTPAPLEDTSSRPQFCKWPCECPPSPPRCPLGVSLITDGCECCK MCAQQLGDNCTEAAICDPHRGLYCDYSGDRPRYAIGVCAQVVGVCVLDGVRNN GQSFQPNCKYNCTCIDGAVGCTPLCLRVRPRLWCPHPRRVSIPGHCCEQWVCED DAKRPRKTAPRDTGAFDAVGEVEAWHRNCIAYTSPWSPCSTSCGLGVSTRISNVNA QCWPEQESRLCNLRPCDVDIHTLIKAGKKCLAVYQPEASMNFTLAGCISTRSYQPKY CGVCMNDRCCIPYKSKTIDVSFQCPDGLGFSRQVLWINACFCNLSCRNPNDIFADLE SYPDFSEIANHHHHHHHHH
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. Easy to precipitate, Please Do Not Keep at 4 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH 7.4, 10% Glycerol
Concentration	0.58 mg/mL by BCA
GENE INFORMATION	
Gene Name	CCN4 cellular communication network factor 4 [Homo sapiens (human)]
Official Symbol	CCN4

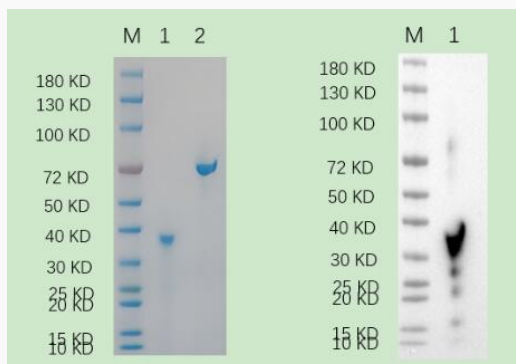
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Synonyms	CCN4; cellular communication network factor 4; WISP1; WISP1c; WISP1i; WISP1tc; WISP1-OT1; WISP1-UT1;
Gene ID	8840
mRNA Refseq	NM_080838
Protein Refseq	NP_543028
MIM	603398
UniProt ID	O95388

**Reducing 4%-20%
SDS-PAGE (CBB
stained) and WB
(Anti-His Mouse
Monoclonal
antibody) analysis
profiles of purified
CCN4.**



1. CCN4
2. BSA

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