

## Recombinant Human WISP1 Protein, His-tagged

WISP1-592H Human

Lot. No. (See product label)

### Specification

<b>Product Overview</b>	Recombinant Human WISP1(Cys216~Arg347) fused with His tag at N-terminal was expressed in E. coli.
<b>Description</b>	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.
<b>Source</b>	E. coli
<b>Species</b>	Human
<b>Tag</b>	His
<b>Form</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Molecular Mass</b>	18.33kDa
<b>Protein length</b>	Cys216~Arg347
<b>Endotoxin</b>	<1.0EU per 1µg (determined by the LAL method)
<b>Purity</b>	>92%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

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**Reconstitution** Reconstitute in PBS or others.

## Gene Information

**Gene Name** [WISP1 WNT1 inducible signaling pathway protein 1 \[ Homo sapiens \]](#)

**Official Symbol** [WISP1](#)

**Synonyms** WISP1; WNT1 inducible signaling pathway protein 1; WNT1-inducible-signaling pathway protein 1; CCN4; CCN family member 4; WNT1 induced secreted protein 1; Wnt-1 inducible signaling pathway protein 1; WISP1c; WISP1i; WISP1tc; FLJ14388;

**Gene ID** [8840](#)

**mRNA Refseq** [NM\\_001204869](#)

**Protein Refseq** [NP\\_001191798](#)

**MIM** [603398](#)

**UniProt ID** [O95388](#)

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