

Bioactive

WISP1 (Human) Recombinant Protein

Catalog # P6432

Size 20 ug

Specification

Product Description	Human WISP1 (O95388) recombinant protein expressed in <i>E. Coli</i> .
Sequence	TALSPAPTTMDFTPAPLEDTSSRPQFCKWPCECPPSPPRCPLGVSLITDGCECCKMCAQQLGD NCTEAAICDPHRGLYCDYSGDRPRYAIGVCAQVVGVCVLDGVRYNNGQSFQPNCKYNCTCIDG AVGCTPLCLRVPPRLWCPHPRRVSIPIGHCEQWVCEDDAKRPRKTAPRDTGAFDAVGEVEA WHRNCIAYTSPWSPCSTSCGLGVSTRISNVNAQCWPEQESRLCNLRPCDVDIHTLIKAGKKCLAV YQPEASMNFTLAGCISTRSYQPKYCGVCMNRCIPYKSKTIDVSFQCPDGLGFSRQVLWINACF CNLSCRNPNDIFADLESYPDFSEIAN
Host	Escherichia coli
Theoretical MW (kDa)	38
Form	Lyophilized
Purity	> 95%
Endotoxin Level	<= 1 EUs/ug (LAL gel clot method)
Activity	Determined by the dose-dependant proliferation of the MCF-7 cell line. The expected ED ₅₀ for this effect is 1-3 ug/mL.
Storage Buffer	Lyophilized from PBS, pH 7.2.
Storage Instruction	Stored at -20°C to -80°C. After reconstitution with sterile water not less than 0.1 mg/mL, store at -20°C to -80°C for 6 months, store at 4°C for 1 month. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Functional Study

Gene Info — WISP1

Entrez GeneID [8840](#)

Protein Accession# [O95388](#)

Gene Name WISP1

Gene Alias CCN4, WISP1c, WISP1i, WISP1tc

Gene Description WNT1 inducible signaling pathway protein 1

Omim ID [603398](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. Alternative splicing of this gene generates 2 transcript variants. [provided by RefSeq]

Other Designations WNT1 induced secreted protein 1|Wnt-1 inducible signaling pathway protein 1|wnt-1 signaling pathway protein 1

Disease

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- [Colorectal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
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