

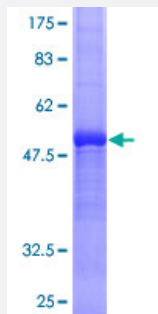
Full-Length

WISP1 (Human) Recombinant Protein (P01)

Catalog # H00008840-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human WISP1 full-length ORF (NP_543028.1, 1 a.a. - 280 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MRWFLPWTLAAVTAAASTVLATALSPAPTTMDFTPAPLEDTSSRPQFCKWPCECPPSPPRCP
LGVSLITDGCECKMCAQQLGDNCTEAAICDPHRGLYCDYSGDRPRYAIGVCAHAVGEVEAWHR
NCIAYTSPWSPCSTSCGLGVSTRISNVNAQCWPEQESRLCNLRPCDVDIHTLIKAGKKCLAVYQP
EASMNFTLAGCISTRSYQPKYCGVCMDNRCCIPYKSKTIDVSFQCPDGLGFSRQVLWINACFCNL
SCRNPNDIFADLESYPDFSEIAN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

57.1

Interspecies Antigen Sequence

Mouse (53); Rat (53)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — WISP1

Entrez GeneID[8840](#)**GeneBank Accession#**[NM_080838.1](#)**Protein Accession#**[NP_543028.1](#)**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

- [Asthma](#)
- [Celiac Disease](#)
- [Colorectal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Narcolepsy](#)
- [Osteoarthritis](#)
- [Ovarian Neoplasms](#)
- [Spondylitis](#)
- [Tobacco Use Disorder](#)