

# Recombinant Human WNT1 Inducible Signaling Pathway Protein 1

**Cat. No.** WISP1-1699H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>                | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>           | WNT1 inducible signaling pathway protein 1, also known as WISP1 is a cysteine-rich, secreted factor belonging to the CCN family which is associated with the extracellular matrix, and can interact with cellular integrins. WISP-1 promotes mesenchymal cell proliferation and osteoblastic differentiation while repressing chondrocytic differentiation. Therefore, WISP-1 plays an important regulatory role during bone development and fracture repair. WISP1 can also contribute to tumorigenesis. |
| <b>State Of Matter</b>       | Lyophilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>                | >90% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Endotoxin</b>             | <1.0 EU/g as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Weight</b>      | The predicted molecular weight of Recombinant Human WISP-1 is Mr 39.3 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 62 kDa.                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage And Stability</b> | This lyophilized protein is stable for six to twelve months when stored desiccated at -                                                                                                                                                                                                                                                                                                                                                                                                                   |

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20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | WISP1 WNT1 inducible signaling pathway protein 1 [ Homo sapiens ]                                                                                                                                                                                                                                            |
| <b>Synonyms</b>            | WISP1; WNT1 inducible signaling pathway protein 1; CCN4; WNT1 induced secreted protein 1; wnt-1 signaling pathway protein 1; Wnt-1 inducible signaling pathway protein 1 WISP1c; WISP1i; WISP1tc; WNT1-inducible-signaling pathway protein 1; WISP-1; Wnt-1-induced secreted protein; WISP1c; WISP1i; WISP1t |
| <b>Gene ID</b>             | 8840                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>         | NM_003882                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>      | NP_003873                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>                 | 603398                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | O95388                                                                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 8q24.22                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>            | insulin-like growth factor binding; protein binding                                                                                                                                                                                                                                                          |

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