

BACKGROUND:

WNT1-inducible-signaling pathway protein 2 (WISP-2) is a member of the CYR61/CTGF/NOV (CCN) family of regulatory factors. WISP-2 is expressed in ectodermal, mesodermal, and endodermal lineages, including primary osteoblasts, fibroblasts, mesenchymal stem cells, and adipogenic precursor cells. WISP-2 is a canonical WNT ligand that regulates cell proliferation, adhesion, and metastasis. Secreted WISP-2 promotes mesenchymal precursor cell proliferation and maintains them in an undifferentiated state. In bone-forming osteoblasts, WISP-2 promotes osteoblast adhesion and inhibits osteocalcin production.

Recombinant Human WNT1-Inducible Signaling Pathway Protein 2 is a non-glycosylated protein monomer, containing 228 amino acids and having a molecular mass of 24.4 kDa.

Cat. No.:
 RP1197

Alternate Names:
 CTGFL, Connective Tissue Growth Factor-Like protein, CCN5, CT-58

AA Sequence:

| | | |
|------------|------------|------------|
| MQLCPTPCTC | PWPPPRCLG | VPLVLDGCGC |
| CRVCARRLGE | PCDQLHVCDA | SQGLVCQPGA |
| GPGGRGALCL | LAEDDSSCEV | NGRLYREGET |
| FQPHCSIRCR | CEDGGFTCPV | LCSEDVRLPS |
| WDCPHPRRVE | VLGKCCPEWV | CGQGGGLGTQ |
| PLPAQGPQFS | GLVSSLPPGV | PCPEWSTAWG |
| PCSTTCGLGM | ATRVSNQNR | CRLETQRRLC |
| LSRPCPPSRG | RSPQNSAF | |

TECHNICAL INFO

Source:
E. coli

Physical Appearance:
 Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:
 0.1% Trifluoroacetic Acid (TFA)

Stability:
 Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:
 Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 10 mM Acetic acid at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
 Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

