

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.:
RP1197AF

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

AA Sequence:

MQLCPTPCTC	PWPPPRCPLG	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.

Animal Component-Free
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

