

WISP-1, Human

Cat. No.: Z03204-5

Size: 5.0 ug

Synonyms: WNT1-inducible-signaling pathway protein 1, CCN4 and Wnt-1-induced secreted protein

Description:

WISP-1, also known as Wnt-1-inducible-signaling pathway protein 1, CCN4 and Wnt-1-induced secreted protein, is a cysteine-rich heparin-binding Glycoprotein belonging to the CCN protein family. It is expressed in many internal organs, such as the lung, kidney and spleen. WISP-1 binds to BMP-2 and enhances mesenchymal cell proliferation and osteoblastic differentiation. WISP-1 has also been reported to attenuate p53-mediated apoptosis and inhibit TNF-induced cell death, suggesting it may play a role in tumorigenesis.

Amino Acid Sequence:

00001 TALSPAPTTM DFTPALEDT SSRPQFCKWP CECPPSPPRC
00041 PLGVSLITDG CECCKMCAQQ LGDNCTEAAI CDPHRGLYCD
00081 YSGDRPRYAI GVCAQVVGVG CVLDGVRYNN GQSFQPNCKY
00121 NCTCIDGAVG CTPLCLRVRP PRLWCPHPRR VSIPGHCCEQ
00161 WVEDDAKRP RKTAPRDTGA FDAVGEVEAW HRNCIAYTSP
00201 WSPCSTSCGL GVSTRISNVN AQCWPEQESR LCNLRPCDVD
00241 IHTLIKAGKK CLAVYQPEAS MNFTLAGCIS TRSYQPKYCG
00281 VCMDNRCCIP YKSKTIDVSF QCPDGLGFSR QVLWINACFC
00321 NLSCRNPNDI FADLESYPDF SEIAN

Source: CHO

Species: Human

Biological Activity: ED₅₀<0.5 µg/ml, measured in a bioassay using ATDC5 cells in the presence of 50 ng/ml human BMP-2.

Molecular Weight: 44-46 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant human WISP-1 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human WISP-1 should be stable up to 1 week at 4°C or up to 2 months at -20°C.