

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant WISP-1, Human

Catalog Number: BK0295-25µg

Source: CHO

Quantity: 25µg

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.

Molecular Weight:

44-46 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

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

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

TALSPAPTTMDFTPAPLEDTSSRPQFCK-

WPCECPPSPPRCPLGVSLITDGCECCKM-
CAQQLGDNCTEAAICDPHRGLYCDYS-
GDRPRYAIGVCAQVVGVCVLD-
GVRYNNGQSFQPNCKYNCTCIDGAVGCT-
PLCLRVRPPRLWCPHPRRVSIPGH-
CCEQWVCEDDAKRPRKTAPRDTGAFDAVGE-
VEAWHRNCIAYTSPWSPCSTSCGLGVSTRISNV-
STSCGLGVSTRISNV-
NAQCWPEQESRLCNLRPCDVDIHT-
LIKAGKKCLAVYQPEASMNFT-
LAGCISTRSYQPKYCGVCMNRRCCIPYK-
SKTIDVSFQCPDGLGFSRQVL-
WINACFCNLSCRNPNDIFADLESYPDFSEIAN

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant human WISP-1 remains stable up to 6 months at -80 °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.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.