

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant WISP-1, Human

Catalog Number: BK0295-5µg

Source: CHO

Quantity: 5µg

### 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:

ED<sub>50</sub> < 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-  
GDRPRYAIGVCAQVVGVGCVLD-  
GVRYNNGQSFQPNCKYNCTCIDGAVGCT-  
PLCLRVRPPRLWCPHPRRVSIPGH-  
CCEQWVCEDDAKRPRKTAPRDTGAFDAVGE-  
VEAWHRNCIAYTSPWSPCSTSCGLGVSTRISNV-  
STSCGLGVSTRISNV-  
NAQCWPEQESRLCNLRPCDVDIHT-  
LIKAGKKCLAVYQPEASMNFT-  
LAGCISTRSYQPKYCGVCMNRRCCIPYK-  
SKTIDVSFQCPDGLGFSRQVL-  
WINACFCNLSCRNPNDIFADLESYPDFSEIAN

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O 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:

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