

CCN4

Recombinant Human CCN4 / WISP1 (His Tag)

Catalog No.	CRH483A-His CRH483B-His	Quantity:	20 µg 100 µg
Alternate Names:	CCN family member 4, WNT1-inducible-signaling pathway protein 1, WISP-1, Wnt-1-induced secreted protein		
Description:	CCN4 (WISP1 is a secreted, cysteine-rich, heparin-binding glycoprotein, belonging to the CCN (CTGF/CYR61/NOV) family of growth factors, and is involved in diverse biological functions such as cell growth, adhesion, migration, angiogenesis, tissue repair, and regulation of extracellular matrix. Members of the CCN family demonstrate high structural homology sharing four conserved cysteine-rich modular domains: a IGFBP (insulin-like growthfactor-binding) domain, a von Willebrand type C domain, a thrombospondin domain and a C-terminal cysteine -knot domain. WISP1 is a putative downstream effector of the Wnt/Frizzled pathway that mediates diverse developmental processes, was identified as an oncogene regulated by the Wnt-1-beta-catenin pathway. Thus may contributes to Wnt-1-mediated tumorigenesis and malignance. Expression of WISP1 in some cells results in transformation and tumorigenesis. WISP1 acts to block cell death at a late stage in the p53-mediated apoptosis pathway. It was reported that WISP1 interacts with sulfated glycoconjugates, decorin and biglycan in the ECM of connective tissue, and possibly prevents their inhibitory activity in tumor cell proliferation.		
UniProt ID:	O95388		
Accession Number:	NP_003873.1		
Protein Construction:	A DNA sequence encoding the human WISP1 (Met 1-Asn 367) was expressed with a C-terminal polyhistidine tag.		
Source:	Hek293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The secreted recombinant human WISP1 consisting of 356 amino acids has a calculated molecular mass of 39 kDa. As a result of glycosylation, It migrates as an approximately 55 kDa protein in SDS-PAGE under reducing conditions.		
Purity:	> 90 % as determined by SDS-PAGE		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	Measured in a cell proliferation assay using NRK-49F rat fibroblasts. The ED50 for this effect is typically 10-25 µg/ml.		
Predicted N-terminal:	Thr 23		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		



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Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com