WISP-3 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: WNT-1 inducible signaling pathway protein-3, CCN6

Cat. No.:

RBG10350005	(5 µg)
RBG10350020	(20 µg)
RBG10350100	(100 µg)

Description

WISP-3 is a member of the CCN family of secreted cysteine rich regulatory proteins. It is predominantly expressed in the adult kidney, testis, and fetal kidney, but it is also found with weaker expression in the placenta, ovary, prostate, small intestine, and skeletally-derived cells. WISP-3 is required for normal postnatal skeletal growth and cartilage homeostasis. Recombinant Human WISP-3 is a 36.8 kDa protein containing 331 amino acid residues. It is composed of four distinct structural domains (modules): the IGF binding protein (IGFBP) domain, the von Willebrand Factor C (VWFC) domain, the thrombospondin type-1 repeat (TSP type-1) domain, and a C-terminal cysteine knot-like (CTCK) domain.

Research topic

Bone and cartilage metabolism, Cardiovascular disease, Coronary artery disease

Amino Acid Sequence

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TGPLDTTPEG RPGEVSDAPQ RKQFCHWPCK CPQQKPRCPP GVSLVRDGCG CCKICAKQPG EICNEADLCD PHKGLYCDYS
VDRPRYETGV CAYLVAVGCE FNQVHYHNGQ VFQPNPLFSC LCVSGAIGCT PLFIPKLAGS HCSGAKGGKK SDQSNCSLEP
LLQQLSTSYK TMPAYRNLPL IWKKKCLVQA TKWTPCSRTC GMGISNRVTN ENSNCEMRKE KRLCYIQPCD SNILKTIKIP
KGKTCQPTFQ LSKAEKFVFS GCSSTQSYKP TFCGICLDKR CCIPNKSKMI TIQFDCPNEG SFKWKMLWIT SCVCQRNCRE
PGDIFSELKI L
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Source

E. coli

Purity

98%

Biological Activity

The ED_{50} was determined by the dose-dependant proliferation of the MCF-7 cell line. The expected ED_{50} for this effect is 0.2-0.3 µg/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 10mM Acetic Acid to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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