WISP3 Active Protein

PRODUCT OVERVIEW

Product Name	WISP3, Active Protein
Full Product Name	WISP3
Product Gene Name	WISP3 active protein
Sequence	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
Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Form/Format	Lyophilized; PBS, pH 7.2
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC.
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C. Upon reconstitution, this product can be stored in working aliquots at 2 degree C - 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.
Molecular Weight	41,402 Da
3D Structure	ModBase 3D Structure for O95389
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Species	Human
Source Note	Optimized DNA sequence encoding Human WISP3 mature chain including a C-terminal 6xHis tag was expressed in ECOLI. Recombinant Human WNT1-inducible-signaling pathway protein 3 encodes amino acid residues 24-354.
Biological Activity	The ED50 was determined by the dose-dependant proliferation of the MCF-7 cell line. The expected ED50 for this effect is 0.2-0.3 ug/ml.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug(1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Applications Tested/Suitable for WISP3 active protein	SDS-PAGE
Application Notes for WISP3 active protein	Recombinant WISP3 migrates as an approximately 36 kDa protein under reducing conditions in SDS-PAGE.
Related Product Information for WISP3 active protein	MBS553639 is an active protein targeting WISP3. Host: E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders).
Other Notes	Small volumes of WISP3 active protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for WISP3. It may not necessarily be applicable to this product.

NCBI GI #	38202241
NCBI GeneID	8838
NCBI Accession #	NP_937882.1
UniProt Primary Accession #	O95389
UniProt Secondary Accession #	Q3KR29; Q5H8W4; Q6UXH6
UniProt Related Accession #	O95389
GenBank Nucleotide #	NM_198239.1
NCBI Official Full Name	WNT1-inducible-signaling pathway protein 3 isoform 3
NCBI Official Synonym Full Names	cellular communication network factor 6
NCBI Official Symbol	CCN6
NCBI Official Synonym Symbols	PPD; LIBC; PPAC; WISP3; WISP-3
UniProt Protein Name	WNT1-inducible-signaling pathway protein 3
UniProt Synonym Protein Names	CCN family member 6
Protein Family	WNT1-inducible-signaling pathway protein
UniProt Gene Name	WISP3
UniProt Synonym Gene Names	CCN6; WISP-3
NCBI Protein Information	WNT1-inducible-signaling pathway protein 3
NCBI Summary for WISP3	This gene encodes a member of the WNT1 inducible signaling pathway (WISP) protein subfamily, which belongs to the connective tissue growth factor (CTGF) family. WNT1 is a member of a family of cysteine-rich, glycosylated signaling proteins that mediate diverse developmental processes. The CTGF family members are characterized by four conserved cysteine-rich domains: insulin-like growth factor-binding domain, von Willebrand factor type C module, thrombospondin domain and C-terminal cystine knot-like domain. This gene is overexpressed in colon tumors. It may be downstream in the WNT1 signaling pathway that is relevant to malignant transformation. Mutations of this gene are associated with progressive pseudorheumatoid dysplasia, an autosomal recessive skeletal disorder, indicating that the gene is essential for normal postnatal skeletal growth and cartilage homeostasis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for WISP3	Appears to be required for normal postnatal skeletal growth and cartilage homeostasis.
Research Articles on WISP3	**1.** WISP-3/CCN6 has a role in inhibiting apoptosis by regulating caspase pathway after hyperoxia in lung epithelial cells
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