Resistin Antagonist (RETN) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Resistin antagonist (RETN), Recombinant Protein
Full Product Name	Human Resistin antagonist
Product Gene Name	RETN recombinant protein
Product Synonym Names	Adipose tissue-specific secretory factor (ADSF); C/EBP-epsilon-regulated myeloid-specific secreted cysteine-rich protein; Cysteine-rich secreted protein A12-alpha-like 2; Cysteine-rich secreted protein FIZZ3
Sequence	ASSKTLCSME E AINERIQEVA GSLIFRAISS IGLECQSVTS RGDLATCPRG FAVTGCTCGS ACGSWDVRAE TTCHCQCAGM DWTGARCCRV QP
Host	E coli
Form/Format	lyophilized
Purity/Purification	>98.0% as determined by RP-HPLC, SDS-PAGE Silver Stained and Gel filtration.
Molecular Weight	34.3 kDa (303aa)
OMIM	605565
3D Structure	ModBase 3D Structure for Q9HD89
Species	Human
Species Reactivity/Cross reactivity	Mouse, Human
Endotoxin level	<0.1 ng/Ug of protein (<1EU/Ug)
Biological Activity	The biological activity was evidenced by resistin antagonist activity to inhibit resistin-induced Akt phosphorylation in two cell lines. It also reduced the weight (mainly the visceral fat) and normalized GTT and ITT inHFD-fed mice.
Reconstitution	It is recommended to reconstitute the lyophilized resistin in sterile 18M-cm H2O not less than 100Ug/ml, which can then be further diluted to other buffered aqueous solutions containing carrier proteins.
Product Categories/Family for RETN recombinant protein	Cytokines & Growth Factors
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for RETN recombinant protein	MBS692846 is a recombinant protein targeting RETN. Also known as Human Resistin antagonist. Host: E coli.
Other Notes	Small volumes of RETN recombinant 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 RETN. It may not necessarily be applicable to this product.

NCBI GI #	9966777
NCBI GeneID	56729
NCBI Accession #	NP_065148
NCBI Related Accession #	NM_020415

UniProt Primary Accession #	Q9HD89
UniProt Secondary Accession #	Q540D9; Q76B53; D6W649
UniProt Related Accession #	Q9HD89
GenBank Nucleotide #	NM_020415.3
NCBI Official Full Name	resistin
NCBI Official Synonym Full Names	resistin
NCBI Official Symbol	RETN
NCBI Official Synonym Symbols	ADSF; RSTN; XCP1; FIZZ3; RETN1
UniProt Protein Name	Resistin
UniProt Synonym Protein Names	Adipose tissue-specific secretory factor; ADSF; C/EBP-epsilon-regulated myeloid-specific secreted cysteine-rich protein; Cysteine-rich secreted protein A12-alpha-like 2; Cysteine-rich secreted protein FIZZ3
Protein Family	Protein dead ringer
UniProt Gene Name	RETN
UniProt Synonym Gene Names	FIZZ3; HXCP1; RSTN; ADSF
UniProt Entry Name	RETN_HUMAN
NCBI Protein Information	resistin
NCBI Summary for RETN	This gene belongs to the family defined by the mouse resistin-like genes. The characteristic feature of this family is the C-terminal stretch of 10 cys residues with identical spacing. The mouse homolog of this protein is secreted by adipocytes, and may be the hormone potentially linking obesity to type II diabetes. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2010]
UniProt Comments for RETN	resistin: Hormone that seems to suppress insulin ability to stimulate glucose uptake into adipose cells. Potentially links obesity to diabetes. Belongs to the resistin/FIZZ family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 19p13.2 Cellular Component: extracellular space; nucleus Molecular Function: hormone activity Biological Process: fat cell differentiation; response to mechanical stimulus; positive regulation of smooth muscle cell proliferation; positive regulation of smooth muscle cell migration; positive regulation of synaptic transmission; response to insulin stimulus; aging Disease: Diabetes Mellitus, Noninsulin-dependent
Research Articles on RETN	**1.** Therefore, rs1423096 and rs10401670, in addition to SNP-420 and SNP-358, were identified as possible functional variants affecting circulating resistin by the genome-wide search in the Japanese population.
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