

Active Recombinant Human RETN

Cat. No. RETN-63H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Overview	Human Resistin Recombinant Protein was expressed in E. coli with 9.9 kDa protein containing 93 amino acid residues and purified by Two-step procedure using size exclusion chromatography before and after refolding.
Description	Resistin, a product of the RSTN gene, is a peptide hormone belonging to the class of cysteine-rich secreted proteins which is termed the RELM family, and is also described as ADSF (Adipose Tissue- Specific Secretory Factor) and FIZZ3 (Found in Inflammatory Zone). Human resistin contains 108 amino acids as a prepeptide, and its hydrophobic signal peptide is cleaved before its secretion. Resistin circulates in human blood as a dimeric protein consisting of two 92 amino acid polypeptides, which are disulfide-linked via Cys26.
Predicted MolecularMass	9.9 kDa
Formulation	Recombinant Human Resistin was lyophilized from a concentrated (1mg/ml) solution containing 0.03% NaHCO ₃ .
Purity	Greater than 98% as determined by SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Specificity	The amino acid sequence of the Resistin Human Recombinant is homologous to the amino acid sequence of the Resistin Human without signal sequence.
Solubility	Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely.
Bioactivity	The biological activity was evidenced by the Resistin ability to prevent insulin-stimulated uptake of deoxy glucose in several cell lines at 10 ng/ml concentration corresponding to a Specific Activity of 100,000IU/mg.
Storage & Stability	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.
OfficialSymbol	RETN

GENE INFORMATION

Gene Name	RETN resistin [Homo sapiens]
Synonyms	RETN; Cysteine-rich secreted protein; FIZZ3; Adipose tissue-specific secretory factor (ADSF); C/EBP-epsilon; regulated myeloid-specific secreted cysteine-rich protein; Cysteine-rich secreted protein A12-alpha-like-2; ADSF; MGC126603; MGC126609; RETN1; XCP1; resistin; MGC126609; C/EBP-epsilon regulated myeloid-specific secreted cysteine-rich protein precursor 1 ; Adipose tissue-specific secretory factor; C/EBP-epsilon regulated myeloid-specific secreted; cysteine-rich protein precursor 1; cysteine-rich protein; Cysteine-rich secreted protein FIZZ3; found in inflammatory zone 3
Gene ID	56729
mRNA Refseq	NM_020415

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Protein Refseq	NP_065148
MIM	605565
UniProt ID	Q9HD89
Chromosome Location	19p13.2
Pathway	Adipogenesis, organism-specific biosystem
Function	hormone activity
Crystallographic structure of ahexamer of mouse resistin	