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Datasheet for 009-001-W19-0005

rHuman Resistin Dimer Protein

Overview

Description:	Human Resistin Dimer Recombinant Protein - 009-001-W19-0005
Item No.:	009-001-W19-0005
Size:	5 µg
Applications:	SDS-PAGE, Cellular Assay
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Resistin 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). Resistin is produced by adipocytes and may be an important link between obesity and insulin resistance. Recombinant human Resistin is a disulfide-linked homodimer, containing two 93 amino acid chains , with a total molecular weight of 20 kDa.
Synonyms:	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, FIZZ3
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	RETN
Purity/Specificity:	Resistin Dimer purity was determined to be greater than 95% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Relevant Links:	• UniProtKB - Q9HD89

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay (Based on references)
Application Note:	Resistin Dimer Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Resistin Dimer in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. Biologic Activity: The activity is determined by its ability to activate ERK1/2 in SH-SY5Y cells.

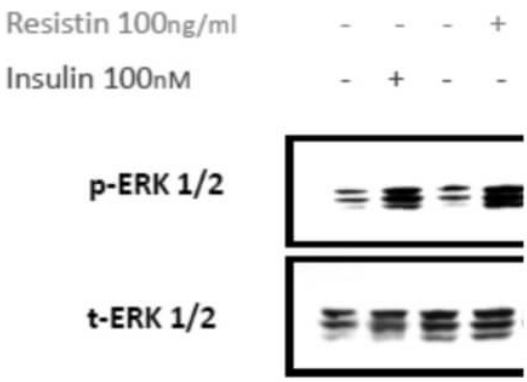
Formulation

Physical State:	Lyophilized
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	5µl (5-50µl)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

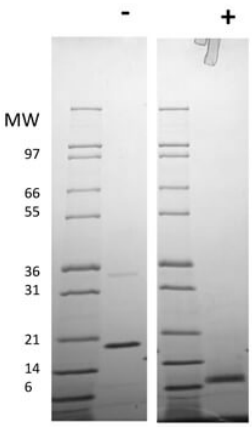
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE
Bioactivity of Human Resistin Dimer Recombinant Protein. 100ng/mL of SBT recombinant Human Resistin or 100 nM Insulin (+ control) was added to differentiated SH-SY5Y cells. After 10 minutes MAPK activity was measured by western blotting whole cell lysates for P-Erk and Total Erk. The figure shows that Human Resistin is able to active MAPK signaling at 100ng/mL.



SDS-PAGE
SDS-PAGE of Human Resistin Dimer Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human Resistin in non-reducing conditions (-). Lane 3: Molecular weight marker. Lane 4: 1 µg Human Resistin in reducing conditions (+). Human Resistin is a homodimer with a predicted total MW of 19.7 kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.