

## Datasheet for 009-001-W40-0025

**rHuman Visfatin Protein****Overview**

<b>Description:</b>	Human Visfatin Recombinant Protein - 009-001-W40-0025
<b>Item No.:</b>	009-001-W40-0025
<b>Size:</b>	25 µg
<b>Applications:</b>	SDS-PAGE, Cellular Assay
<b>Origin:</b>	Human
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	Visfatin is an adipokine produced by visceral adipose tissue. Other adipokines include leptin, adiponectin, resistin, chemerin, omentin and vaspin. Visfatin has been shown to act as a pro-inflammatory factor for PBMCs and may mimic the effects of insulin on adipocytes, monocytes and hepatocytes. Recombinant human Visfatin is a non-glycosylated protein, containing 466 amino acids, with a molecular weight of 52.6 kDa.
<b>Synonyms:</b>	Pre-B-cell colony-enhancing factor 1, PBEF
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	NAMPT
<b>Purity/Specificity:</b>	Visfatin purity was determined to be greater than 90% as determined by reducing and non-reducing SDS-pAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P43490</a></li></ul>

## Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Suggested Applications:</b>	Cellular Assay (Based on references)
<b>Application Note:</b>	Visfatin Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Visfatin in immunological assays.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by its ability to induce IL-6, IL-1 beta and TNF alpha production from human PBMCs at 100 ng/mL.

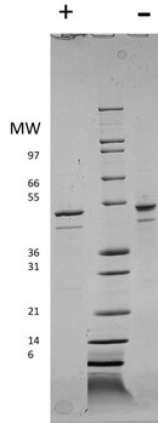
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Buffer:</b>	0.1% Trifluoroacetic acid
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	25 $\mu$ l (25-250 $\mu$ l)
<b>Reconstitution Buffer:</b>	0.02M HCl

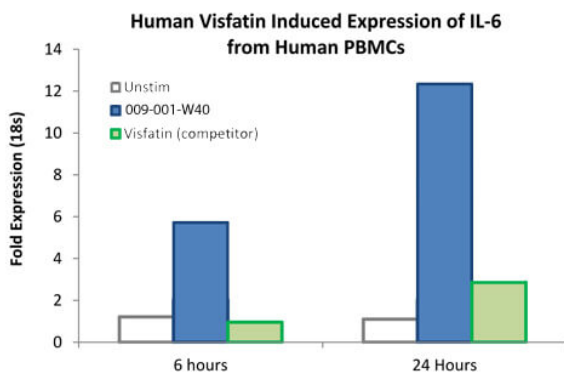
## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	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.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Images


**SDS-PAGE**

SDS-PAGE of Human Visfatin Recombinant Protein. Lane 1: 1 µg Human Visfatin in reducing conditions (+). Lane 2: Molecular weight marker. Lane 3: 1 µg Human Visfatin in non-reducing conditions (-). Human Visfatin has a predicted MW of 52.6 kDa.


**SDS-PAGE**

Bioactivity of Human Visfatin Recombinant Protein. 100 ng/mL Human Visfatin was added to cultures of healthy human PBMCs. After 6 and 24 hours, IL-6 expression was measured (RNA). LPS was used as a positive control. A significant increase in IL-6, TNFα and IL-1 beta were seen at 6 and 24 hours. Only IL-6 is shown, but other data is available by request.

**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.