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Datasheet for 009-F01-C23-0010

# rHuman VEGF-121 Protein

## Overview

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| **Description:** | Human Vascular Endothelial Growth Factor-121 Recombinant Protein (Animal Free) - 009-F01-C23-0010 |
| **Item No.:** | 009-F01-C23-0010 |
| **Size:** | 10 µg |
| **Applications:** | SDS-PAGE |
| **Origin:** | Human |
| **Expressed in:** | E. coli |

## Product Details

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| **Background:** | Vascular Endothelial Growth Factor-A (VEGF-A) was originally isolated from tumor cells and is produced by a wide variety of cell types. In addition to stimulating vascular growth and vascular permeability, VEGF-A may play a role in stimulating vasodilation via nitric oxide-dependent pathways. VEGF-A has several variants, one being VEGF-121. Rat and bovine VEGF are one amino acid shorter than the human factor, and the bovine and human sequences show a homology of 95%. Recombinant human VEGF-121 is a non-glycosylated homodimer, containing two 121 amino acid chains , with a total molecular weight of 28.4 kDa. |
| **Synonyms:** | VEGF-A, glioma-derived endothelial cell mitogen, Vascular permeability factor (VPF) |
| **Species of Origin:** | Human |
| **Expressed in:** | E. coli |
| **Type:** | Recombinant Protein |
| **Low Endotoxin:** | Yes |

## Target Details

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| **Gene Name:** | VEGFA |
| **Purity/Specificity:** | Vascular Endothelial Growth Factor is produced with no animal-derived raw products, animal free equipment and animal free protocols. Purity was determined to be greater than 98% as determined by reducing and non-reducing SDS-PAGE. |
| **Relevant Links:** | • UniProtKB - P15692-9 |

## Application Details

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| **Tested Applications:** | SDS-PAGE |
| **Application Note:** | Endothelial Growth Factor-121 Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Endothelial Growth Factor-121 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 the dose-dependent proliferation of HUVECs and is typically 5 ng/mL. |

## Formulation

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| **Physical State:** | Lyophilized |
| **Buffer:** | 0.1% Trifluoroacetic acid |
| **Preservative:** | None |
| **Stabilizer:** | None |
| **Reconstitution Volume:** | 10µl (10-100µl) |
| **Reconstitution Buffer:** | Restore with deionized water (or equivalent) |

## Shipping & Handling

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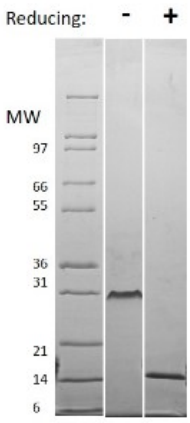
| **Shipping Condition:** | Ambient |
| **Storage Condition:** | Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). 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**

SDS-PAGE of Human Vascular Endothelial Growth Factor-121 Animal Free Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: (-) 1 µg Human VEGF-121 AF in non-reducing conditions. Lane 3: (+) 1 µg Human VEGF-121 AF in reducing conditions. Human VEGF-121 AF is predicted to be a homodimer with a predicted MW of 28.4 kDa.

## Disclaimer