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Datasheet for 009-F01-C23-0002

rHuman VEGF-121 Protein

Overview

Description:	Human Vascular Endothelial Growth Factor-121 Recombinant Protein (Animal Free) - 009-F01-C23-0002
Item No.:	009-F01-C23-0002
Size:	2 µg
Applications:	SDS-PAGE
Origin:	Human

Product Details

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
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

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

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.

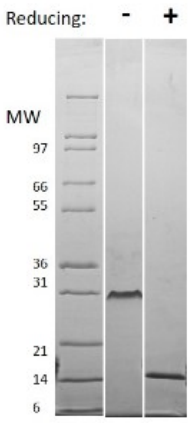
Formulation

Physical State:	Lyophilized
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	2µl (2-20µl)
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

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

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.