

Product Datasheet

Recombinant Human VEGF 165 Protein NBC1-21359-0.010mg

Unit Size: 0.01 mg

Store at -80C. Avoid freeze-thaw cycles.

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NBC1-21359-0.010mg**Recombinant Human VEGF 165 Protein**

Product Information	
Unit Size	0.01 mg
Concentration	Lyoph
Storage	Store at -80C. Avoid freeze-thaw cycles.
Preservative	No Preservative
Reconstitution Instructions	Reconstitute with sterilized water to a final concentration of at least 0.1 mg/ml.
Buffer	From PBS, pH 7.2.

Product Description	
Description	Recombinant human VEGF 165 is produced in the endosperm tissue of barley grain (<i>Hordeum vulgare</i>), that exhibits up to 50 times less protease activity than <i>E.coli</i> or mammalian cells. Barley seed is void of any human or animal viral contaminants that could jeopardize your cell culture. Endotoxin level is less than 0.005ng per ug of product (0.05EU/ug) as measured by turbidimetric kinetic assay.
Gene ID	7422
Gene Symbol	VEGFA
Species	Human
Preparation Method	Produced in the endosperm tissue of barley grain (<i>Hordeum vulgare</i>), that exhibits up to 50 times less protease activity than <i>E.coli</i> or mammalian cells. Barley seed is void of any human or animal viral contaminants that could jeopardize your cell culture.
Details of Functionality	The bioactivity recombinant human VEGF 165 was determined by its dose dependent effect on proliferation of Human Umbilical Vein Endothelial Cells (HUVEC). The ED50 for this effect is typically below 10 ng/ml corresponding to specific activity of > 1 x 10 ⁵ U/mg.
Notes	Product carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using Human 10-plex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction. Purity is greater than 95% by SDS-PAGE gel analysis. After reconstituted, recommend add a carrier protein (0.1% HSA or BSA) for long term storage.
Endotoxin Note	Endotoxin level is less than 0.005ng per ug (0.05EU/ug) as measured by turbidimetric kinetic assay.

Product Application Details	
Applications	Western Blot, Functional
Recommended Dilutions	Western Blot, Functional
Application Notes	Recombinant human VEGF165 contains 165 amino acids and a 16 a.a. Histidine-based tag for a total length of 181 a.a. and has a predicted molecular mass of 21.3 kDa. As a result of glycosylation, the recombinant protein migrates with an apparent molecular mass of 30 kDa in SDS-PAGE.

Publications

Deuel J, Flanagan C, Krebsbach P. Dual delivery of bmp2 and vegf from a modular polycaprolactone scaffold for the treatment of large bone defects. Thesis. 2015-01-01





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Limitations

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