

Product Datasheet

Recombinant Human VEGF165 Protein (orb2995236)

Catalog Number	orb2995236
Category	Proteins
Description	Recombinant Human Vascular Endothelial Growth Factor A is produced by our Mammalian expression system and the target gene encoding Ala27-Arg191 is expressed.
Conjugation	Unconjugated
Tag	Tag free
Form/Appearance	Lyophilized
Buffer/Preservatives	0.2 µm filtered solution of 20mM Citrate, 8% Sucrose, 4% Mannitol, 0.05% Tween 80, pH 4.0.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Purity	SDS-PAGE: Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
UniProt ID	P15692
MW	Predicted: 19.1 KDa. Observed: 18-24 KDa, reducing conditions
Expression System	Human Cells
Endotoxins	0.01 EU/µg as determined by LAL test.

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

Biological Origin	Human
Biological Activity	ELISA: Immobilized Recombinant Human VEGF165(Cat#orb2995236) at 2µg/ml (100 µl/well) can bind Human VEGF-A Antibody (Bevacizumab)(Human IgG1)(Cat#orb2992936). The ED50 of Human VEGF-A Antibody (Bevacizumab)(Human IgG1)(Cat#orb2992936) is 2.20 ng/ml. (Regularly tested) Immobilized Human VEGF165 (Cat#orb2995236) at 10µg/ml (100 µl/well) can bind Human VEGFR1-Fc (Cat#orb2994454). The ED50 of Recombinant Human VEGFR1-Fc (Cat#orb2994454) is 36.4 ng/ml. (Regularly tested). BLI: Loaded Brolucizumab on AMC Biosensor, can bind Recombinant Human VEGF165 (Cat#orb2995236) with an affinity constant of 22.2 pM as determined in BLI assay. (Regularly tested) Loaded Human VEGF-A Antibody (Bevacizumab) (Cat#orb2992936) on Pro-A Biosensor, can bind Recombinant Human VEGF165 (Cat#orb2995236) with an affinity constant of 7.12 pM as determined in BLI assay. (Regularly tested) Loaded Human VEGFR1-Fc(Cat#orb2994454) on Protein A Biosensor, can bind Human VEGF165(Cat#orb2995236) with an affinity constant of 0.29 nM as determined in BLI assay. (Regularly tested). Cell Based Assay: Measured by its ability to induce calcineurin- NFAT signaling in 293-VEGF Res cells(Cat#Xorb3002411). The ED50 for this effect is 1.56 ng/mL.(Regularly tested)
Expression Region	Ala27-Arg191
Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Note	For research use only
Expiration Date	6 months from date of receipt.

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)