



Bovine Vascular endothelial growth factor A(VEGFA) ELISA kit

Product Code	CSB-EL025833BO
Abbreviation	VEGFA
Protein Biological Process 1	Angiogenesis
Target Name	vascular endothelial growth factor A
Uniprot No.	P15691
Alias	RP1-261G23.1, MGC70609, MVCD1, VEGF, VEGF-A, VPF, vascular endothelial growth factor isoform VEGF165 vascular permeability factor
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	47 pg/mL-3000 pg/mL
Sensitivity	11.75 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	VEGFA
Tag Info	quantitative
Protein Description	Sandwich
Description	This Bovine VEGFA ELISA Kit was designed for the quantitative measurement of Bovine VEGFA protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 47 pg/mL-3000 pg/mL and the sensitivity is 11.75 pg/mL.
Target Details	This gene is a member of the PDGF/VEGF growth factor family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing



angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of bovine VEGFA in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	97
1:1	Range %	88-102
	Average %	92
1:2	Range %	87-92
	Average %	90
1:4	Range %	85-94
	Average %	92
1:8	Range %	84-96

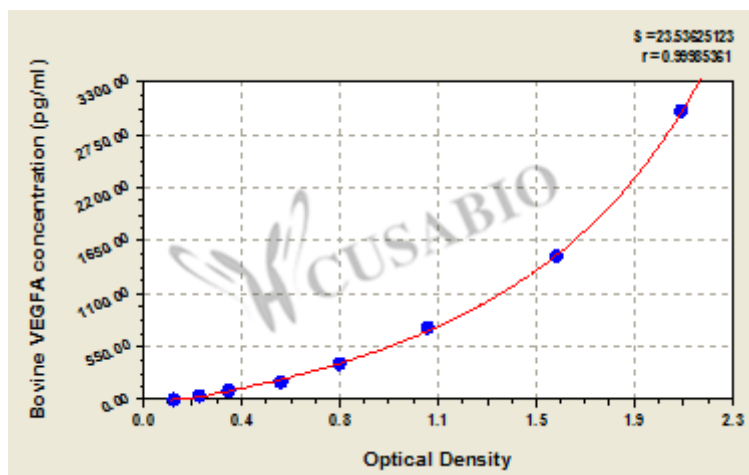
Recovery

The recovery of bovine VEGFA spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	91	84-95
EDTA plasma (n=4)	104	97-111

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
3000	2.147	1.988	2.068	1.940
1500	1.604	1.576	1.590	1.462
750	1.105	1.089	1.097	0.969
375	0.756	0.767	0.762	0.634
187.5	0.538	0.531	0.535	0.407
94	0.340	0.332	0.336	0.208
47	0.228	0.221	0.225	0.097
0	0.127	0.129	0.128	?

Msds

```
{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL025833BO.pdf",
    "filename": "MSDS"
  }
}
```