Rat Vascular Endothelial cell Growth Factor D,VEGF-D ELISA kit

Product Code	CSB-E07352r
Abbreviation	Vegfd
Protein Biological Process 1	Angiogenesis
Target Name	c-fos induced growth factor (vascular endothelial growth factor D)
Uniprot No.	O35251
Alias	VEGF-D, VEGFD, vascular endothelial growth factor D
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/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	Cardiovascular
Gene Names	Vegfd
Tag Info	quantitative
Protein Description	Sandwich
Description	The Rat Vascular Endothelial cell Growth Factor D (VEGF-D) ELISA kit is a powerful tool for researchers studying the cardiovascular system in rats. VEGF-D is a protein known for its role in promoting the growth and survival of blood vessels, making it an important target for cardiovascular research. Our ELISA kit utilizes a quantitative sandwich assay principle to measure the levels of VEGF-D in serum, plasma, and tissue homogenates with a detection range of 0.312 ng/mL to 20 ng/mL and a sensitivity of 0.078 ng/mL. With an assay time of only 1-5 hours and a sample volume of 50-100ul, this kit is both efficient and convenient for researchers.

Whether you are investigating the mechanisms of angiogenesis and lymphatic regeneration or studying the effects of cardiovascular disease on the vasculature, this Rat Vascular Endothelial cell Growth Factor D (VEGF-D) ELISA kit is the perfect tool for your research needs.

Target Details

This protein is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family and is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-2 and VEGFR-3 receptors. This protein is structurally and functionally similar to vascular endothelial growth factor C.

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 rat VEGF-D 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)
1:1	Average %	87
	Range %	83-92
1:2	Average %	101
	Range %	97-105
1:4	Average %	91
	Range %	85-97
1:8	Average %	97
	Range %	91-103

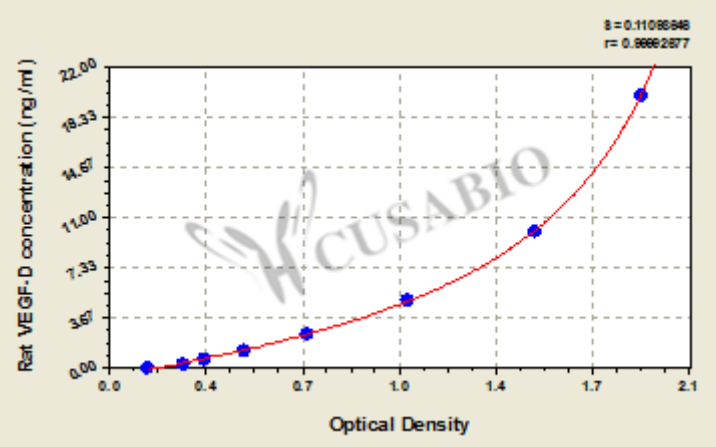
Recovery

The recovery of rat VEGF-D 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	86-95
EDTA plasma (n=4)	98	94-102

Typical

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



ng/ml	OD1	OD2	Average	Corrected
20	1.932	1.837	1.885	1.738
10	1.456	1.566	1.511	1.364
5	1.088	1.042	1.065	0.918
2.5	0.713	0.707	0.710	0.563
1.25	0.492	0.481	0.487	0.340
0.625	0.358	0.342	0.350	0.203
0.312	0.272	0.278	0.275	0.128
0	0.148	0.146	0.147	?

Msds

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