



# Rat Visceral adipose-specific serine protease inhibitor,vaspin ELISA Kit

Product Code	CSB-E09813r
Abbreviation	SERPINA12
Target Name	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 12
Uniprot No.	Q8R4Z1
Alias	OL-64, serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 12 vaspin visceral adipose-specific SERPIN
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.8 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	Cardiovascular
Gene Names	Serpina12
Tag Info	quantitative
Protein Description	Sandwich

## Description

Visceral Adipose-Specific Serine Protease Inhibitor, Vaspin is a member of the serine protease inhibitor family which has insulin-sensitizing effects. The Rat Visceral Adipose-Specific Serine Protease Inhibitor, Vaspin ELISA Kit is an essential tool for researchers in the metabolism and cardiovascular field. This quantitative assay is designed to detect and measure the level of Visceral Adipose Tissue-Derived Serine Protease Inhibitor (Vaspin) in serum, plasma, and tissue homogenates of Rattus norvegicus (Rat).

The assay principle of this kit is based on the sandwich method, which ensures accurate and reliable results. The detection range of the Rat Vaspin ELISA Kit is 31.25 pg/mL-2000 pg/mL, and the sensitivity is 7.8 pg/mL. The assay time for this kit is 1-5 hours, and the sample volume required is only 50-100 ul.

This kit's measurement is conducted at a detection wavelength of 450 nm,



allowing for precise and efficient detection of Vaspin levels. Researchers can confidently use this kit to investigate the potential role of Vaspin in metabolism and cardiovascular diseases, given its specificity for visceral adipose tissue.

### 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 vaspin 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 %	85
	Range %	80-90
1:2	Average %	94
	Range %	90-98
1:4	Average %	91
	Range %	85-97
1:8	Average %	97
	Range %	92-104

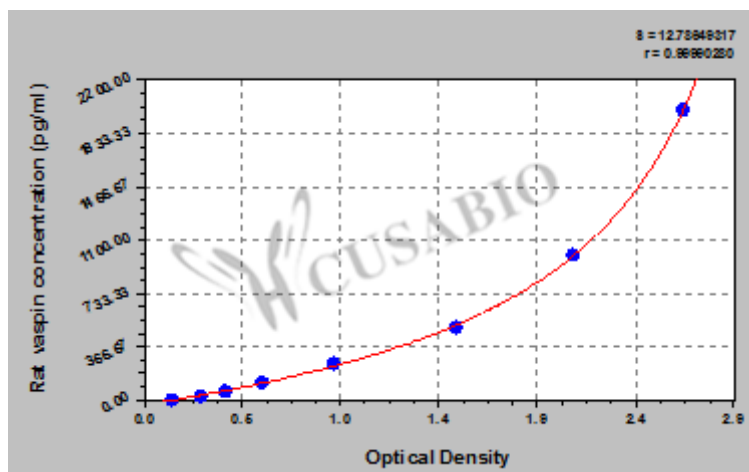
### Recovery

The recovery of rat vaspin 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)	105	100-110
EDTA plasma (n=4)	95	90-100

### 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
2000	2.679	2.576	2.628	2.479
1000	2.071	2.114	2.093	1.944
500	1.582	1.472	1.527	1.378
250	0.958	0.913	0.936	0.787
125	0.580	0.589	0.585	0.436
62.5	0.412	0.407	0.410	0.261
31.25	0.302	0.279	0.291	0.142
0	0.147	0.151	0.149	

## Msds

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