



# Mouse visfatin ELISA Kit

|                                     |                                                                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>                 | CSB-E08942m                                                                                                                                  |
| <b>Protein Biological Process 2</b> | Alkaloid biosynthesis and metabolism                                                                                                         |
| <b>Abbreviation</b>                 | NAMPT                                                                                                                                        |
| <b>Protein Biological Process 1</b> | Biosynthesis/Metabolism                                                                                                                      |
| <b>Target Name</b>                  | nicotinamide phosphoribosyltransferase                                                                                                       |
| <b>Uniprot No.</b>                  | Q99KQ4                                                                                                                                       |
| <b>Alias</b>                        | 1110035O14Rik, DKFZp666B131, MGC117256, PBEF, PBEF1, VF, VISFATIN, NAMPTase pre-B cell-enhancing factor pre-B-cell colony enhancing factor 1 |
| <b>Product Type</b>                 | ELISA Kit                                                                                                                                    |
| <b>Immunogen Species</b>            | Mus musculus (Mouse)                                                                                                                         |
| <b>Protein Biological Process 3</b> | Pyridine nucleotide biosynthesis                                                                                                             |
| <b>Sample Types</b>                 | serum, plasma, tissue homogenates                                                                                                            |
| <b>Detection Range</b>              | 0.312 ng/mL-20 ng/mL                                                                                                                         |
| <b>Sensitivity</b>                  | 0.078 ng/mL                                                                                                                                  |
| <b>Assay Time</b>                   | 1-5h                                                                                                                                         |
| <b>Sample Volume</b>                | 50-100ul                                                                                                                                     |
| <b>Detection Wavelength</b>         | 450 nm                                                                                                                                       |
| <b>Lead Time</b>                    | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.                                     |
| <b>Research Area</b>                | Metabolism                                                                                                                                   |
| <b>Gene Names</b>                   | Nampt                                                                                                                                        |
| <b>Tag Info</b>                     | quantitative                                                                                                                                 |
| <b>Protein Description</b>          | Sandwich                                                                                                                                     |

## Description

This Mouse NAMPT ELISA Kit was designed for the quantitative measurement of Mouse NAMPT protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.

## Target Details

This gene encodes a protein that catalyzes the condensation of nicotinamide with 5-phosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, one step in the biosynthesis of nicotinamide adenine dinucleotide. The protein is an adipokine that is localized to the bloodstream and has various functions,



including the promotion of vascular smooth muscle cell maturation and inhibition of neutrophil apoptosis. It also activates insulin receptor and has insulin-mimetic effects, lowering blood glucose and improving insulin sensitivity. The protein is highly expressed in visceral fat and serum levels of the protein correlate with obesity. This gene has a pseudogene on chromosome 10.

#### 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 mouse visfatin 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 % | 90         |
|     | Range %   | 85-95      |
| 1:2 | Average % | 98         |
|     | Range %   | 94-100     |
| 1:4 | Average % | 102        |
|     | Range %   | 94-107     |
| 1:8 | Average % | 94         |
|     | Range %   | 87-98      |

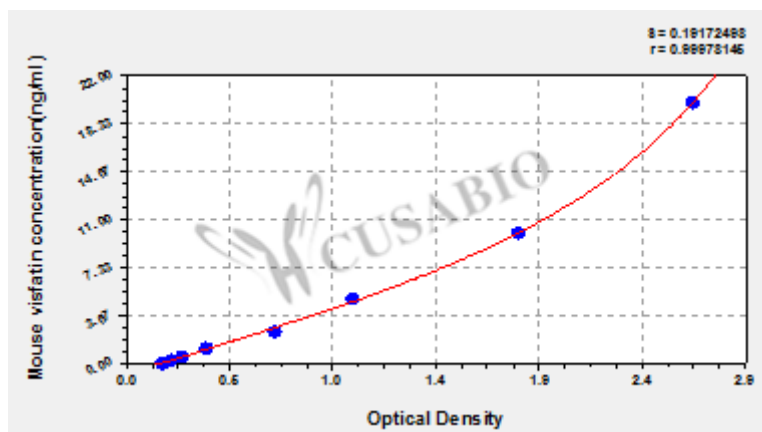
#### Recovery

The recovery of mouse visfatin 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)       | 97                 | 92-102 |
| EDTA plasma (n=4) | 93                 | 88-98  |

#### 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    | 2.533 | 2.695 | 2.614   | 2.434     |
| 10    | 1.867 | 1.764 | 1.816   | 1.636     |
| 5     | 1.016 | 1.097 | 1.057   | 0.877     |
| 2.5   | 0.678 | 0.713 | 0.696   | 0.516     |
| 1.25  | 0.382 | 0.390 | 0.386   | 0.206     |
| 0.625 | 0.276 | 0.270 | 0.273   | 0.093     |
| 0.312 | 0.224 | 0.220 | 0.222   | 0.042     |
| 0     | 0.174 | 0.185 | 0.180   |           |

## Msds

```
{
  "0": {
    "fileurl": "https://www.cusabio.com/uploadfile/msds/MSDS CSB-E08942m.pdf",
    "filename": "MSDS"
  }
}
```