

Rat nicotinamide phosphoribosyltransferase ELISA Kit | NAMPT elisa kit

Rat visfatin ELISA Kit

CATALOG #
AAA79513

REACTIVITY
Rat

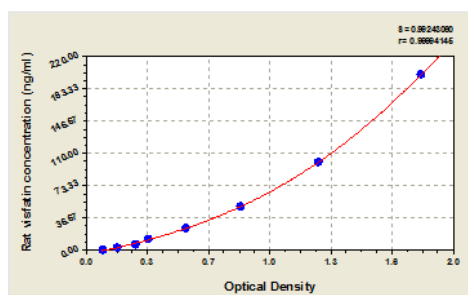
PRODUCT SYNONYMS

nicotinamide phosphoribosyltransferase; Rat visfatin ELISA Kit; 1110035O14Rik; DKFZp666B131; MGC117256; PBEF; PBEF1; VF; VISFATIN; NAMPTase; pre-B cell-enhancing factor; pre-B-cell colony enhancing factor 1; NAMPT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat NAMPT. No significant cross-reactivity or interference between Rat NAMPT and analogues was observed.
Sequence Length	491
Samples	Serum, plasma, tissue homogenates
Detection Range	3.12 ng/ml-200 ng/ml
Sensitivity	0.78 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Biosynthesis/Metabolism
Protein Biological Process 2	Alkaloid biosynthesis and metabolism
Protein Biological Process 3	Pyridine nucleotide biosynthesis
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for NAMPT elisa kit

Introduction: Visfatin, an adipokine that is highly enriched in the visceral fat, has increased expression level in plasma during the development of obesity, implying its important role in obesity. Visfatin (also known as PBEF and Nampt), a 52 kDa cytoplasmic protein composed of 473-amino acid, expresses primarily in bone marrow, muscle and liver tissue but can also be detected in placenta, lung, kidney and heart tissue. In addition to its role in obesity, visfatin also has other biological functions. Visfatin is a nicotinamide phosphoribosyltransferase (Nampt) enzyme that catalyzes first step in the biosynthesis of NAD from nicotinamide. Visfatin has also been reported to be a cytokine (PBEF) that promotes B cell maturation and inhibits neutrophil apoptosis.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to visfatin. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for visfatin and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain visfatin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of visfatin in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29293813
NCBI GeneID	297508
NCBI Accession #	NP_808789.1
NCBI GenBank Nucleotide #	NM_177928.3
UniProt Accession #	Q80Z29 ; Q2VT47
Molecular Weight	55,438 Da
NCBI Official Full Name	nicotinamide phosphoribosyltransferase
NCBI Official Synonym Full Names	nicotinamide phosphoribosyltransferase
NCBI Official Symbol	Nampt
NCBI Official Synonym Symbols	Pbef; Pbef1
NCBI Protein Information	nicotinamide phosphoribosyltransferase; visfatin; NAmPRTase; pre-B-cell colony enhancing factor 1; pre-B-cell colony-enhancing factor 1 homolog
UniProt Protein Name	Nicotinamide phosphoribosyltransferase
UniProt Gene Name	Nampt
UniProt Synonym Gene Names	Pbef1; NAmPRTase; Nampt; PBEF
UniProt Entry Name	NAMPT_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/nampt-rat-elisa-kits/nicotinamide-phosphoribosyltransferase/79513>