

Mouse nicotinamide phosphoribosyltransferase ELISA Kit | NAMPT elisa kit

Mouse visfatin ELISA Kit

CATALOG #
AAA80405

REACTIVITY
Mouse

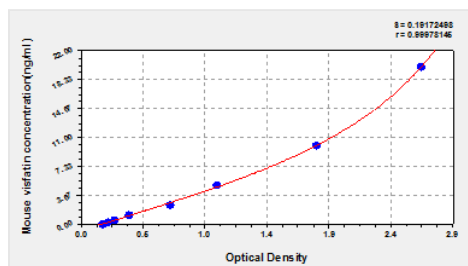
PRODUCT SYNONYMS

nicotinamide phosphoribosyltransferase; Mouse 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	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse NAMPT. No significant cross-reactivity or interference between Mouse NAMPT and analogues was observed.
Sequence Length	491
Samples	Serum, plasma, tissue homogenates
Detection Range	0.312 ng/ml-20 ng/ml
Sensitivity	0.078 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 , also know as Nampt or PBEF, is a nicotinamide phosphoribosyltransferase (Nampt) enzyme that catalyzes first step in the biosynthesis of NAD from nicotinamide. This protein has also been reported to be a cytokine (PBEF) that promotes B cell maturation and inhibits neutrophil apoptosis. Visfatin was originally cloned as a putative cytokine shown to enhance the maturation of B cell precursors in the presence of Interleukin (IL)-7 and stem cell factor, it was therefore named "pre-B cell colony-enhancing factor" (PBEF). When the gene encoding the bacterial nicotinamide phosphoribosyltransferase (nadV) was first isolated in Haemophilus ducreyi, it was found to exhibit significant homology to the mammalian PBEF gene. Rongvaux et al. demonstrated genetically that the human PBEF gene conferred Nampt enzymatic activity and NAD-independent growth to bacteria lacking nadV. Revollo et al. determined biochemically that the human PBEF gene product encodes a Nampt enzyme, capable of modulating intracellular NAD levels. Others have since confirmed these findings. More recently, several groups have reported the crystal structure of Visfatin and they all show that this protein is a dimeric type II phosphoribosyltransferase enzyme involved in NAD biosynthesis. Although the original cytokine function of PBEF has not been confirmed to date, others have since reported or suggested a cytokine-like function for this protein. Particularly, Nampt/PBEF was recently re-identified as a "new visceral fat-derived hormone" named visfatin. It is reported that visfatin is enriched in the visceral fat of both humans and mice and that its plasma levels increase during the development of obesity. Strikingly, visfatin is reported to exert insulin-mimetic effects in cultured cells and to lower plasma glucose levels in mice by binding to and activating the insulin receptor (10). However, the physiological relevance of visfatin is still in question because its plasma concentration is 40 to 100-fold lower than that of insulin despite having similar receptor-binding affinity. Additionally, the ability of visfatin to bind and activate the insulin-receptor has yet to be confirmed by other groups. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	257153454
NCBI GeneID	59027
NCBI Accession #	NP_067499.2
NCBI GenBank Nucleotide #	NM_021524.2
UniProt Accession #	Q99KQ4; Q8C3B5; Q9JKM0
Molecular Weight	55,447 Da
NCBI Official Full Name	nicotinamide phosphoribosyltransferase
NCBI Official Synonym Full Names	nicotinamide phosphoribosyltransferase
NCBI Official Symbol	Nampt
NCBI Official Synonym Symbols	Pbef; Pbef1; AI314458; AI480535; Visfatin; NAmPRTase; 1110035O14Rik
NCBI Protein Information	nicotinamide phosphoribosyltransferase; 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_MOUSE

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/hampt-mouse-elisa-kits/nicotinamide-phosphoribosyltransferase/80405>