

Visfatin Recombinant Protein | mVisfatin recombinant protein

Recombinant Mouse Visfatin

CATALOG # AAA38210	HOST E Coli
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PRODUCT SYNONYMS

Visfatin; Recombinant Mouse Visfatin; Visfatin Mouse; Visfatin Mouse Recombinant; PBEF; Pre-B cell colony-enhancing factor; Nicotinamide phosphoribosyltransferase NAMPTase; Nampt; MGC117256; DKFZP666B131; 1110035O14Rik; mVisfatin recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	The protein solution contains 1x PBS pH-7.4. Sterile Filtered colorless 1 mg/ml solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMNA AAEEAFNILL ATDSYKVTHY KQYPPNTSKV YSYFECREKK TENS KVRKVK YEETVFYGLQ YILNKYLK GK VVTKEKIQEA KEVYREHFQD DVFNERGWNY ILEKYDGHLP IEVKAVPEGS VIPRGNVLFT VENTDPECYW LTNWIETILV QSWYPITVAT NSREQKKILA KYLLETSGNL DGLEYKLHDF GYRGVSSQET AGIGASAHV NFKGTDTVAG IALIKKYYGT KDPVPGYSVP AAHSTITAW GKDHEKDAFE HIVTQFSSVP VSVVSDSYDI YNACEKIWGE DLRHLIVSRS TEAPLIIRPD SGNPLDTV LK VLDILGKKFP VTENSKGYKL LPPYLRVIQ G DGVDINTLQE IVEGMKQKKW SIENVSGSG GALLQKLTRD LLNCSFKCSY VVTNGLGVNV FKDPVADPNK RSKKGRLSLH RTPAGNFVTL EEGKGDLEEY GHDLHTVFK NGKVTKSYSF DEVKNAQLN IEQDVAPH
Sequence Length	491
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mVisfatin recombinant protein	Description: Visfatin Mouse Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain (aa 1-491) containing a 20 aa His tag and having 511 amino acids. The total molecular mass is 57kDa. The Visfatin is purified by proprietary chromatographic techniques. Introduction: Excess adiposity is the most important risk in the development of insulin resistance and type 2 diabetes mellitus (T2DM). Adipose tissue produces several proteins (adipocytokines) such as leptin, adiponectin, resistin, tumor necrosis factor-α, and IL-6, that modulate insulin sensitivity and appear to play an important role in the pathogenesis of insulin resistance, diabetes, dyslipidemia, inflammation, and atherosclerosis. However, the mechanisms by which fat tissue induces insulin resistance and the role of adipocytokines in the pathogenesis of T2DM have not been well established. Visfatin, also known as pre-B cell colony-enhancing factor (PBEF), is a cytokine that is highly expressed in visceral fat and was originally isolated as a secreted factor that synergizes with IL-7 and stem cell factors to promote the growth of B cell precursors. Visfatin homologs have been identified in carp, invertebrate mollusks, and bacteria, as well as in vertebrates, including humans and the mouse. It has been postulated to play a role in innate immunity. Visfatin exerts insulin-mimetic effects that are dose-dependent and quantitatively similar to those of insulin in stimulating muscle and adipocyte glucose transport, and in inhibiting hepatocyte glucose production. Intravenous injection of recombinant visfatin in mice decreased plasma glucose in a dose-dependent fashion. In keeping with its insulin-mimetic effects, visfatin was as effective as insulin in reducing hyperglycemia in insulin-deficient diabetic mice. Visfatin was also found to be bound to and activate insulin receptor, causing receptor phosphorylation and the activation of downstream signaling molecules. However, visfatin and insulin did not compete for binding to the insulin receptor, indicating that the two proteins were recognized by different regions of the receptor. Thus, visfatin might play a role in glucose homeostasis and dysregulation in biosynthesis or signal transduction, and might contribute to the pathogenesis of diabetes.
Product Categories/Family for mVisfatin recombinant protein	Cytokines and Growth Factors; Cytokines; Visfatin

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.