Recombinant Human Nicotinamide Phosphoribosyltransferase

Cat. No. NAMPT-134H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanVisfatin produced in*E.Coli*is a single, non-glycosylated, polypeptide chain containing 511 amino acids and having a molecular mass of 57 kDa. The recombinant human Visfatin is fused to His tag at N-Terminus.
Species	Human
Source	E.coli
Description	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.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MNPAAEAEFN ILLATDSYKV THYKQYPPNT SKVYSYFECR EKKTENSKLR KVKYEETVFY GLQYILNKYL KGKVVTKEKI QEAKDVYKEH FQDDVFNEKG WNYILEKYDG HLPIEIKAVP EGFVIPRGNV LFTVENTDPE CYWLTNWIET ILVQSWYPIT VATNSREQKK ILAKYLLETS GNLDGLEYKL HDFGYRGVSS QETAGIGASA HLVNFKGTDT VAGLALIKKY

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	YGTKDPVPGY SVPAAEHSTI TAWGKDHEKD AFEHIVTQFS SVPVSVVSDS YDIYNACEKI WGEDLRHLIV SRSTQAPLII RPDSGNPLDT VLKVLEILGK KFPVTENSKG YKLLPPYLRV IQGDGVDINT LQEIVEGMKQ KMWSIENIAF GSGGGLLQKL TRDLLNCSFK CSYVVTNGLG INVFKDPVAD PNKRSKKGRL SLHRTPAGNF VTLEEGKGDL EEYGQDLLHT VFKNGKVTKS YSFDEIRKNA QLNIELEAAH H.
Physical Appearance	Sterile Filtered solution at a concentration of 1 mg/ml.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Visfatin His tag protein contains 20 mM Tris pH-8, 0.1 mM DTT & 10% glycerol.
Solubility	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

GENE INFORMATION

Gene Name	NAMPT nicotinamide phosphoribosyltransferase [Homo sapiens]
Synonyms	NAMPT; nicotinamide phosphoribosyltransferase; NAmPRTase; DKFZp666B131; EC 2.4.2.12; EC=2.4.2.12; PBEF; PBEF1; pre-B cell-enhancing factor; pre-B-cell colony enhancing factor 1; pre-B-cell colony enhancing factor 1 TIN; VF;visfatiN; Visfatin 3; VISFANAmPRTase; 1110035O14Rik; Short name=Nampt; Short name=NAmPRTase; Short name=Pre-B cell-enhancing factor
Gene ID	10135
mRNA Refseq	NM_005746

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Protein Refseq	NP_005737
MIM	608764
UniProt ID	P43490
Chromosome Location	7q22.3
Pathway	Nicotinate and nicotinamide metabolism; Metabolism of vitamins and cofactors REACT_11193
Function	cytokine activity; nicotinamide phosphoribosyltransferase activity; nicotinamide phosphoribosyltransferase activity; transferase activity, transferring glycosyl groups

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