

Recombinant Human Nicotinamide Phosphoribosyltransferase

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

SPECIFICATION

Product Overview Recombinant Human Visfatin 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 MNPAEAEFN ILLATDSYKV THYKQYPPNT
 SKVYSYFECR EKKTENSCLR KVKYEETVfy GLQYILNKYL KGKVVTKKI
 QEAKDVYKEH FQDDVFNEKG WNYILEKYDG HLPiEiKAVP EGFVIPRGNV
 LFTVENTDPE CYWLTNWIET ILVQSWYPIT VATNSREQKK ILAKYLLETS
 GNLDGLEYKL HDFGYRGVSS QETAGIGASA HLVNFKGTDV 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 VTLEEGKGDLE EYQGQDLLHT 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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