

Recombinant Human NAMPT

Cat. No. NAMPT-28520TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant PBEF fragment (Human), containing 465 amino acid residues (isoform 1).
Species	Human
Source	E.coli
Description	This gene encodes a protein that catalyzes the condensation of nicotinamide with 5-p-hosphoribosyl-1-pyrophosphate to yield nicotinamide mononucleotide, one step in the biosynthesis of nicotinamide adenine dinucleotide. The protein belongs to the nicotinic acid phosphoribosyltransferase (NAPRTase) family and is thought to be involved in many important biological processes, including metabolism, stress response and aging. This gene has a pseudogene on chromosome 10.
Tissue specificity	Expressed in large amounts in bone marrow, liver tissue, and muscle. Also present in heart, placenta, lung, and kidney tissues.
Form	Lyophilised: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. Note: Due to solubility reasons the protein should be kept at low pH. This solution can be stored at 2-8°C for up to 1 week. For ex
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10mM Hydrochloric acid

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MPPNTSKVYS YFECREKKTE NSKLRKVKEYE ETVFYGLQYI LNKYLKGKVV TKEKIQEAKD VYKEHFQDDV FNEKGWNYIL EKYDGHLP IE IKAVPEGFVI PRGNVLTVE NTDPECYWLT NWIETILVQS WYPITVATNS REQKKILAKY LLETSGNLDG LEYKLHDFGY RGVSSQETAG IGASAHNVNF KGTDTVAGLA LIKYYGTKD PVPGYSPAA EHSTITAWGK DHEKDAFEHI VTQFSSVPVS VVSDSYDIYN ACEKIWGEDL RHLIVSRSTQ APLIIRPDSG NPLDVLKVL EILGKKFPVT ENSKGYKLLP PYLRVIQGDG VDINTLQEIV EGMKQKMWSI ENIAFGSGGG LLQKLTRDLL NCSFKCSYVV TNGLGINVFK DPVADPNKRS KKGRLSLHRT PAGNFVTL EE GKGDLEEY GQ DLLHTVFKNG KVTKSYSFDE IRKNAQLNIE LEAAHH
Sequence Similarities	Belongs to the NAPRTase family.

GENE INFORMATION

Gene Name	NAMPT nicotinamide phosphoribosyltransferase [Homo sapiens]
Official Symbol	NAMPT
Synonyms	NAMPT; nicotinamide phosphoribosyltransferase; PBEF1, pre B cell colony enhancing factor 1; PBEF; visfatin;
Gene ID	10135
mRNA Refseq	NM_005746
Protein Refseq	NP_005737

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MIM	608764
Uniprot ID	P43490
Chromosome Location	7q22.2
Pathway	Adipogenesis, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Nicotinamide salvaging, organism-specific biosystem;
Function	cytokine activity; nicotinamide phosphoribosyltransferase activity; nicotinate phosphoribosyltransferase activity; nicotinate-nucleotide diphosphorylase (carboxylating) activity; transferase activity, transferring glycosyl groups;