

# Recombinant Human PBEF/NAMPT Protein (His & GST Tag)



Catalog Number:PKSH031981

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

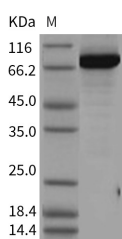
## Description

<b>Synonyms</b>	Pre-B cell-enhancing factor;Nicotinamide phosphoribosyltransferase;NAmpRTase;Nampt;Pre-B-cell colony-enhancing factor 1;Visfatin;NAMPT;PBEF;PBEF1
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 1-His 491
<b>Accession</b>	P43490
<b>Calculated Molecular Weight</b>	83.3 kDa
<b>Observed molecular weight</b>	75 kDa
<b>Tag</b>	N-His-GST

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 20% glycerol, 0.3mM DTT. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printe
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

Nicotinamide phosphoribosyltransferase (NAMPT); also known as pre-B-cell colony-enhancing factor 1 (PBEF1) or visfatin; is an enzyme belonging to the family of glycosyltransferases; to be specific; the pentosyltransferases. This enzyme participates in nicotinate and nicotinamide metabolism. This enzyme catalyzes the condensation of nicotinamide with 5- phosphoribosyl-1- pyrophosphate to yield nicotinamide mononucleotide; one step in the biosynthesis of nicotinamide adenine dinucleotide. NAMPT is also considered as an essential enzyme mediating granulocyte colony-

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stimulating factor (G-CSF)-triggered granulopoiesis in healthy individuals and in individuals with severe congenital neutropenia. Intracellular NAMPT and NAD<sup>+</sup> amounts in myeloid cells; as well as plasma NAMPT and NAD<sup>+</sup> levels; were increased by G-CSF treatment of both healthy volunteers and individuals with congenital neutropenia.

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