Human PBEF / Visfatin / NAMPT Protein (His & GST Tag)

Catalog Number: **10990-H20B**

Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

1110035O14Rik, DKFZp666B131, MGC117256, PBEF, PBEF1, VF, VISFATIN

Protein Construction:

A DNA sequence encoding the human NAMPT (P43490) (Met 1-His 491 was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Met

Molecular Mass:

The recombinant human NAMPT/GST chimera consists of 728 amino acids and has a calculated molecular mass of 83.3 kDa. It migrates as an approximately 75 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 20% gly, 0.3mM DTT

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

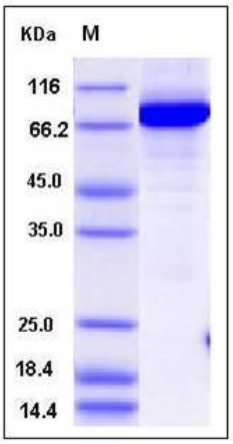
Usage Guide

Storage:

Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

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

References

1. Revollo JR. et al., 2007, Cell Metab. 6 (5): 363-75.
2. Skokowa J. et al., 2009, Nat Med. 15 (2): 151-8.
3. Samal B. et al., 1994, Mol Cell Biol. 14 (2): 1431-7.