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

Catalog Number: PKSH031981

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

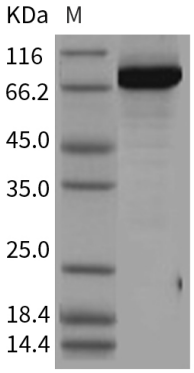
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human PBEF/NAMPT protein Met 1-His 491, with an N-terminal His & GST
Calculated MW	83.3 kDa
Observed MW	75 kDa
Accession	P43490
Bio-activity	Not validated for activity

Properties

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

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