Recombinant Human PBEF/Visfatin/NAMPT Protein

Catalog No.: RP00724

Sequence Information

Species
Human

Gene ID
10135

Swiss Prot
P43490

Tags
NO-tag

Synonyms
NAMPT,1110035O14Rik,PBEF, PBEF1,VF,VISFATIN

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
55.39 kDa

Observed MW
60-65 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of 20mM HEPES, 150mM NaCl, pH8.0.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Pre-B cell colony enhancing factor (PBEF) was originally identified as a cytokine that potentiated the clonalexpansion and differentiation of pre-B cells, but it is also acknowledged to be the ubiquitous intracellularenzyme nicotinamide phosphoribosyltranferase (NAMPT) and the adipokine “ visfatin ” . PBEF is constitutivelyexpressed in the fetal membranes where its greatest expression is in the amnion. It has intracellular andextracellular forms. Most of the intracellular functions of PBEF are due to its role as a Nampt which can induceangiogenesis through upregulation of VEGF and VEGFR and secretion of MCP-1. Extracellular PBEF has beenshown to increase inflammatory cytokines, such as TNF- α , IL-1 β , IL-16, and TGF- β 1. PBEF also increases theproduction of IL-6, TNF- α , and IL-1 β in CD14+ monocytes, macrophages, and dendritic cells, enhances theeffectiveness of T cells.

Basic Information

Description
Recombinant Human PBEF/Visfatin/NAMPT Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Asn2-His491) of human Visfatin/Nampt (Accession #P43490) fused with no additional amino acid.

Activity
Measured in a cell proliferation assay using RPMI 8226 cells. The ED50 for this effect is 1.72-6.89 ng/mL,corresponding to a specific activity of 1.45×105~5.81×105units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

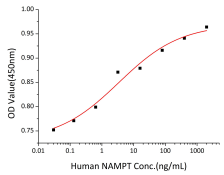
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

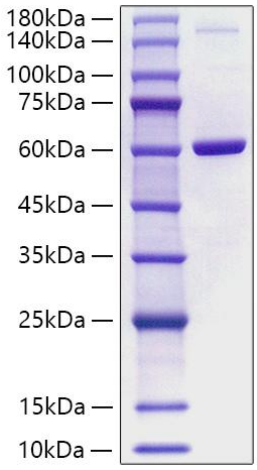
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human Visfatin/Nampt stimulates cell proliferation of the RPMI 8226 cells. The ED_{50} for this effect is 1.72-6.89 ng/mL,corresponding to a specific activity of 1.45×10^5~5.81×10^5units/mg.



Recombinant Human PBEF/Visfatin/NAMPT Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.