

Recombinant Human Visfatin/Nampt Protein

Catalog No.: RP00724 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	10135	P43490

Tags

NO-tag

Synonyms

NAMPT;1110035014Rik;PBEF;PBEF1;VF;
;VISFATIN

Product Information

Source	Purification
<i>E. coli</i>	> 95% by SDS- PAGE.

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 stabilizer (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 clonal expansion and differentiation of pre-B cells, but it is also acknowledged to be the ubiquitous intracellular enzyme nicotinamide phosphoribosyltransferase (NAMPT) and the adipokine "visfatin". PBEF is constitutively expressed in the fetal membranes where its greatest expression is in the amnion. It has intracellular and extracellular forms. Most of the intracellular functions of PBEF are due to its role as a Nampt which can induce angiogenesis through upregulation of VEGF and VEGFR and secretion of MCP-1. Extracellular PBEF has been shown to increase inflammatory cytokines, such as TNF-α, IL-1β, IL-16, and TGF-β1. PBEF also increases the production of IL-6, TNF-α, and IL-1β in CD14+ monocytes, macrophages, and dendritic cells, enhances the effectiveness of T cells.

Basic Information

Description

Recombinant Human 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.

Bio-Activity

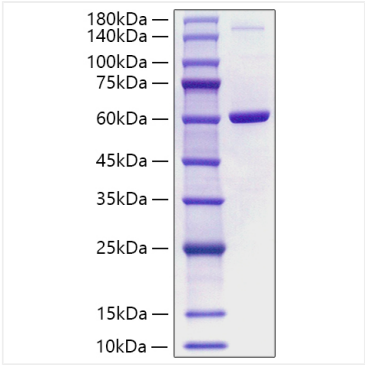
Measured in a cell proliferation assay using RPMI 8226 cells. The ED50 for this effect is 1.72-6.89 ng/mL, corresponding to a specific activity of 1.45×10⁵~5.81×10⁵ units/mg.

Storage

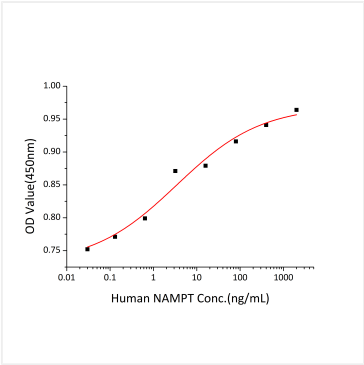
Store the lyophilized protein at -20°C to -80°C for long term.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Contact

Validation Data



Recombinant Human Visfatin/Nampt Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-65 kDa.



Recombinant Human Visfatin/Nampt stimulates cell proliferation of the 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.