Recombinant Human PBEF

Catalog No: CP22

Description	Recombinant Human Pre-B-Cell Colony-Enhancing Factor 1 is produced by our E.coli expression system and the target gene encoding Met1-His491 is expressed with a 6His tag at the N-terminus
Source	E.coli
Alternative name	Pre-B cell-enhancing factor; Nicotinamide phosphoribosyltransferase; NAmPRTase; Nampt; Pre-B- cell colony-enhancing factor 1; Visfatin; NAMPT; PBEF; PBEF1
Accession No.	P43490
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM HEPES, 150mM NaCl, pH8.0.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
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 phosphoribosyltranferase (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-1 β in CD14+ monocyctes, macrophages, and dendritic cells, enhances the effectiveness of T cells.

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