

## 32-8786: Recombinant Human Pre-B-Cell Colony-Enhancing Factor 1/PBEF/Visfatin (N-6His)

**Gene :** NAMPT

**Gene ID :** 10135

**Uniprot ID :** P43490

### Description

Source: E.coli.

MW :57kD.

Recombinant Human Visfatin 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. 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- $\alpha$ , IL-1  $\beta$ , IL-16, and TGF- $\beta$ 1. PBEF also increases the production of IL-6, TNF- $\alpha$ , and IL-1  $\beta$  in CD14<sup>+</sup> monocytes, macrophages, and dendritic cells, enhances the effectiveness of T cells.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g

**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of 20mM HEPES, 150mM NaCl, pH8.0.

**Storage condition :** 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.

**Amino Acid :** MNHKVHHHHHNMNPAEAFAEFNILLATDSYKVTTHYKQYPPNTSKVSYFECREKKTENSKLRKVKY  
EETVFYGLQYILNKYLKGVVTEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPKAVPE  
GFVIPRGNVLFVTENTDPECYWLTNWIETILVQSWYPITVATNSREQKKILAKYLLTSGNLDGLEYK  
LHDFGYRGVSSQETAGIGASAHLVNFKGTDVAGLALIKKYYGTDKDPVPGYSVPAAEHSTITAWGK  
DHEKDAFEHIVTQFSSVPVSVSDSYDIYNACEKIWGEDLRHLIVSRSTQAPLIIRPDGSGNPLDTVLK  
VLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIIEGMKQKMWSIENIAFGSGGGLLQKLT  
RDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRSLHRTTPAGNFVTLEEGKGDLEEGQD  
LLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.