

Human recombinant IL-36 beta (Interleukin-36 beta) protein, AF

Catalog Number: PROTQ9NZH7-3

Overview

Product Name	Human recombinant IL-36 beta (Interleukin-36 beta) protein, AF
Description	Interleukin-36 beta (IL-36beta) is an 18 kDa cytokine with 154 amino acid residues. IL-36beta, the ligand of IL-36R, is expressed in keratinocytes and plays a significant role in inflammatory responses. IL-36beta regulates biological functions like the differentiation of T cells. Moreover, IL-36beta recruits neutrophils via inducing the expression of cytokines and chemokines, such as IL-17C, granulocyte colony-stimulating factor (G-CSF), IL-8, CXCL-1, and tumor necrosis factor (TNF).
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 18.17 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce IL-8 secretion in human PBMCs. The ED₅₀ for this effect is <0.2 ng/mL.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MREAAPKSYAIRDSRQMVVWVLSGNSLIAAPLSRSIKPVTLHLIACRDTEFSDKEKGNMVYLGIKGKDLCLFCAEIQGKPTLQLKEKNIMDLYVEKKAQKP
FLFFHNKEGSTSVFQSVSYPGWFIATSTTSGQPIFLTKERGITNNTNFYLDSE with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Usage

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