

Human IL-36 β Protein

Cat #: PRP1949

Size: 50 μ g/20 μ g/100 μ g/1mg

Product Information

	Product Name: Human IL-36 β Protein		
REF	Catalog Number: PRP1949	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E. coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Interleukin 36 beta (IL-36 β) is a member of the IL-1 family of proteins. It is a cytokine that binds to and signals through the IL1RL2/IL-36R receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells linked to a pro-inflammatory response. Interleukin 36 beta are involved in a number of fundamental biological processes such as stimulating production of interleukin-6 and interleukin-8 in synovial fibroblasts, articular chondrocytes and mature adipocytes, inducing expression of a number of antimicrobial peptides including beta-defensin 4 and beta-defensin 103 as well as a number of matrix metalloproteases, inducing the production of proinflammatory cytokines in bone marrow-derived dendritic cells (BMDCs), including IL-12, IL-1 β , IL-6, TNF- α and IL-23, and activating p38 MAPK phosphorylation in BMDCs. Moreover, interleukin 36 beta may be involved in skin inflammatory response by acting on keratinocytes, dendritic cells, and indirectly on T cells to drive tissue infiltration, cell maturation and cell proliferation. It plays an important role in dendritic cell maturation by stimulating the surface expression of CD80, CD86 and MHC class II and inducing the production of IFN- γ , IL-4 and IL-17 by T helper 1(Th1) cells, cultured CD4⁺ T cells and splenocytes.

Sequence: Amino acid sequence derived from_Human IL-36 β (Arg5-Glu164) (Q9NZH7) was expressed.

Protein length: The recombinant Human IL-36 β protein consists of 160 amino acids and predicts a molecular mass of 17.37KDa.

Biological Activity: Testing in progress.

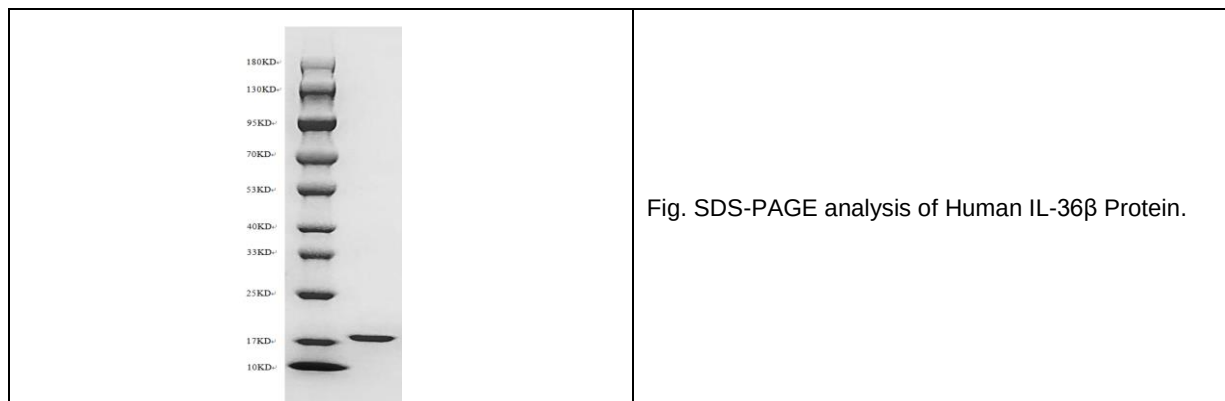
Endotoxin: < 1.0 EU per μ g of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile 20 mM Tris with 150 mM NaCl, pH 7.4.

Storage Instructions: Lyophilized recombinant Human IL-36 β Protein product should be stored desiccated below -20°C.

Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Human IL-36 β Protein using the buffer we provided not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.



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