Recombinant Mouse Il36a Protein, Myc/DDK-tagged

Cat. No. Il36a-3506M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length interleukin 1 family, member 6 (Il1f6), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. Part of the IL-36 signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory response; similar to the IL-1 system with which it shares the coreceptor IL1RAP. Seems to 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. Induces the production of proinflammatory cytokines, including IL-12, Il-1 beta, IL-6, TNF-alpha and IL-23 in bone marrow-derived dendritic cells (BMDCs). Involved in dendritic cell maturation by stimulating the surface expression of CD80, CD86 and MHC class II. Induces the production of IFN-gamma, IL-4 and IL-17 by cultured CD4+ T-cells and splenocytes. May play a role in proinflammatory effects in the lung: induces the expression of CXCL1 and CXCL2 in the lung, and the expression of TNF-alpha, IL-36c, IL-1A, IL-1B, CXCL1 and CXCL2 in isolated splenic CD11c+ alveolar macrophages. May be involved in T-cell maturation by stimulating the surface expression of CD40 and modestly CD80 and CD86 in splenic CD11c+ cells. May be involved in CD4+ T-cell proliferation. Induces NF-kappa B activation in macrophages.

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Molecular Mass	18.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Il36a interleukin 36A [Mus musculus (house mouse)]
Official Symbol	Il36a
Synonyms	IL1F6; interleukin 1 family, member 6; interleukin-36 alpha; IL-1F6; Fil1epsilon; FIL1 epsilon; IL-1 epsilon; interleukin-1 epsilon; interleukin-1 homolog 1; interleukin-1 family member 6; interleukin 1 family, member 9; interleukin 1 family, member 6 (epsilon); Fil1; Il1f9; Il36a; IL-1H1; IL1RP2; MGC151479; MGC151481
Gene ID	54448
mRNA Refseq	NM_019450
Protein Refseq	NP_062323
UniProt ID	Q9JLA2

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