

RP00550

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Recombinant Mouse IL-36 α /IL-36 alpha/IL-1F6 Protein

Catalog No.: RP00550 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
<i>E. coli</i>	54448	Q9JLA2

Tags
No tag

Synonyms

Interleukin-36 alpha; IL36a; FIL1 epsilon; Interleukin-1 epsilon; IL-1 epsilon; Interleukin-1 family member 6; IL-1F6; Interleukin-1 homolog 1; IL-1H1; Fil1e; IL1e; IL1f6; IL1h1

Product Information

Source	Purification
<i>E. coli</i>	≥ 95 % as determined by SDS-PAGE.

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Contact



www.abclonal.com

Background

Interleukin-36 alpha (IL-36a) is a member of the IL-1 family. IL-1 α , IL-1 β and IL-18 are potent inflammatory cytokines whose activities are dependent on heterodimeric receptors of the IL-1R superfamily, and which are regulated by soluble antagonists. IL36a is a cytokine that binds to and signals through the IL1RL2/IL-36R receptor which in turn activates NF- κ B and MAPK signaling pathways in target cells linked to a pro-inflammatory response. It is a 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. It 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). Moreover, it is involved in dendritic cell maturation by stimulating the surface expression of CD80, CD86 and MHC class II and can induce the production of IFN-gamma, IL-4 and IL-17 by cultured CD4+ T cells and splenocytes. IL36a 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. It may be involved in T cell maturation by stimulating the surface expression of CD40 and modestly CD80 and CD86 in splenic CD11c+ cells and CD4+ T cell proliferation.

Basic Information

Description

Recombinant Mouse IL-36 α /IL-36 alpha/IL-1F6 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Arg8-His160) of mouse IL-36 α /IL-36 alpha/IL-1F6 (Accession #Q9JLA2) fused with an initial Met at the N-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

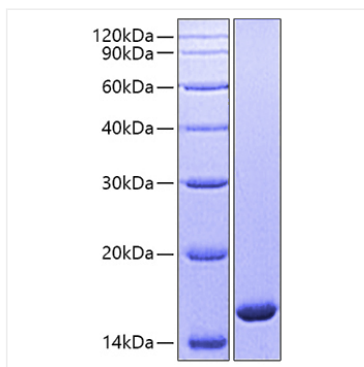
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Recombinant Mouse IL-36 α /IL-36
alpha/IL-1F6 Protein was determined
by SDS-PAGE under reducing
conditions with Coomassie Blue.