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

Catalog No.: RP00550

Sequence Information

Species
Mouse

Gene ID
54448

Swiss Prot
Q9JLA2

Tags
No tag

Synonyms
Interleukin-36 alpha;Il36a;FIL1 epsilon;Interleukin-1 epsilon;IL-1 epsilon;nterleukin-1 familymember 6;IL-1F6;Interleukin-1 homolog 1; IL-1H1;Fil1e; Il1e; Il1f6; Il1h1

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MWObserved MW

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm 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.

Background

Interleukin-36 alpha(Il-36a) is a member of the IL-1 family.IL¬1α,IL¬1β and IL-18 are potent inflammatory cytokines whoseactivities are dependent on heterodimeric receptors of the IL-1R superfamily, and which are regulated by solubleantagonists. Il36a 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. It is a part of the IL-36signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory response; similarto 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 inbone marrow-derived dendritic cells (BMDCs). Moreover, it is involved in dendritic cell maturation by stimulating thesurface expression of CD80, CD86 and MHC class II and can induce the production of IFN-gamma, IL-4 and IL-17 by culturedCD4+ T cells and splenocytes. Il36a may play a role in proinflammatory effects in the lung: induces the expression of CXCL1and 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 modestlyCD80 and CD86 in splenic CD11c+ cells and CD4+ T cell proliferation.

Basic Information

Description
Recombinant Mouse IL-36α/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-36α/IL-36 alpha/IL-1F6 (Accession #Q9JLA2) fused with an initial Met at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

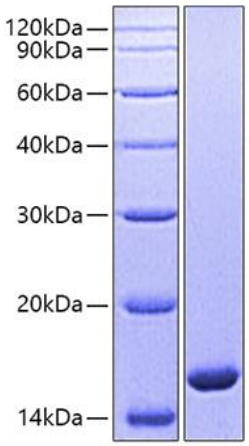
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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