

**RMCM032**

Recombinant IL-36 alpha (Interleukin-36 alpha), Mouse, AF



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5ug;20ug;100ug;500ug;

### Synonym/Alternative name(s):

IL36A, Interleukin-1 family member 6 (IL-1F6), FIL1ε (FIL1E), Interleukin-1ε (IL1E), Fi, Fil, Fil1, IL-1, IL-1H1, IL1RP2

### Activity:

Measure by its ability to induce IL-6 secretion in 3T3 cells.

The ED50 for this effect is <15 ng/mL.

The specific activity of recombinant mouse IL-36 alpha is > 1 x 10<sup>5</sup> IU/mg.

### Protein Description:

Interleukin-36α (IL-36 alpha ) 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. IL-36 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. In cultured keratinocytes induces the expression of macrophage, T-cell, and neutrophil chemokines, such as CCL3, CCL4, CCL5, CCL2, CCL17, CCL22, CL20, CCL5, CCL2, CCL17, CCL22, CXCL8, CCL20 and CXCL1, and the production of proinflammatory cytokines such as TNF-alpha, IL-8 and IL-6. In cultured monocytes upregulates expression of IL-1A, IL-1B and IL-6. In myeloid dendritic cells involved in cell maturation by upregulating surface expression of CD83, CD86 and HLA-DR. In monocyte-derived dendritic cells facilitates dendritic cell maturation and drives T-cell proliferation. IL-36 may also play a role in proinflammatory effects in the lung.

**Protein Accession :** Q9JLA2.1

**Gene ID :** 54448

### Expression Sequence:

MNKEKELRAASPSLRHVQDLSSRVWILQNNILTAVPRKEQTPVPTITLLPCQYLDLTLETNRGDPTYMGVQRPMSCLFCTKDGEQPVLQLGEGNIMEMYNKKEPVKASLFYHKKSGTSTFESAAPFGWFIACVCSKGSCLPILTQELGEIFITDFEMIVVH with polyhistidine tag at the C-terminus.

**Fusion tag :** His-tag?at?the?C-terminus

**Species :** Mouse

**Reactivity :** Mouse

**Expression Host :** Escherichia coli

**Source :** E. coli

### Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

### Endotoxin level:

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

**Calculated Molecular Weight :** 18.82 kDa

### Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 7.4.

**Reconstitution:**

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

**Shipping :** Blue Ice

**Stability and Storage:**

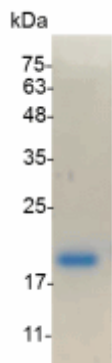
Lyophilized protein should be stored at -20°C for 1 year.

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.

**Category :** Cytokines

**Application :** Cell culture, Elisa

**Image:**

SDS- PAGE analysis of recombinant mouse IL-36 alpha