

Active Recombinant Mouse Il36a Protein (Met1-His160), C-His tagged, Animal-free, Carrier-free

Cat. No. Il36a-249M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il36a Protein (Met1-His160) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Met1-His160
Description	Interleukin 36 alpha (IL-36 alpha) is a 17.76 kDa cytokine with 160 amino acid residues. IL-36 alpha is an IL-1 family member, which binds to the Interleukin-1 receptor and is expressed in the lung, stomach, and placenta. IL-36 alpha is critical in inflammatory responses and stimulates the production of proinflammatory cytokines, such as IL-12, IL-1 β , IL-6, and TNF- α . It also induces the generation of IFN γ , IL-4, and IL-17 in CD4 $^{+}$ T cells.
Form	Lyophilized
Bio-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 $\times$ 10 ⁵ IU/mg.
Molecular Mass	The protein has a calculated MW of 18.82 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	IL36a interleukin 36A [Mus musculus (house mouse)]
Official Symbol	IL36a
Synonyms	IL36a; interleukin 36A; Fil1; If36a; Il1f6; Il1f9; IL-1H1; IL1RP2; interleukin-36 alpha; FIL1 epsilon; Fil1epsilon; IL-1 epsilon; IL-1F6; interleukin 1 family, member 6 (epsilon); interleukin 1 family, member 9; interleukin-1 epsilon; interleukin-1 family member 6; interleukin-1 homolog 1
Gene ID	54448

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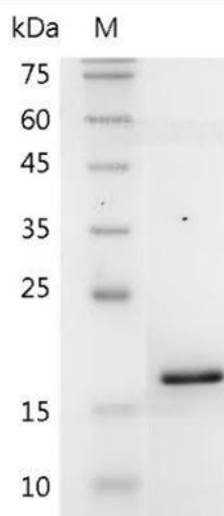
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mRNA Refseq [NM_019450](#)

Protein Refseq [NP_062323](#)

UniProt ID [Q9JLA2](#)

**SDS-PAGE analysis
of recombinant
mouse IL-36 Alpha.**



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