

## Active Recombinant Mouse Il1f6

Cat. No. Il1f6-552M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Il1f6 produced in E. coli is approximately 20.9 kDa, a single non-glycosylated polypeptide chain containing 183 amino acids.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Interleukin-36 (IL-36) is a pro-inflammatory cytokine which plays an important role in the pathophysiology of several diseases. IL-36 $\alpha$ , IL-36 $\beta$ , and IL-36 $\gamma$ (formerly IL-1F6, IL-1F8, and IL-1F9) are IL-1 family members that signal through the IL-1 receptor family members IL-1Rrp2 (IL-1RL2) and IL-1RAcP. IL-36 beta is reported to be expressed at higher levels in psoriatic plaques than in symptomless psoriatic skin or healthy control skin and it can stimulate production of interleukin-6 and interleukin-8 in synovial fibroblasts, articular chondrocytes and mature adipocytes. It beta has two isoforms. IL-36 $\beta$ isoform 2 contains one potential N-linked glycosylation site in its C-terminus, while IL-36 $\beta$ isoform 1 lacks potential N-linked glycosylation sites and four of the conserved $\beta$ -strands. Within the IL-1 family, IL-36 $\beta$ /IL-1F8 shares 30 %, 32 %, 37 %, 46 %, 34 %, 45 % and 28 % a.a. sequence identity with IL-1 ra, IL-1 $\beta$ , IL-36Ra/IL-1F5, IL-36 $\alpha$ /IL-1F6, IL-37/IL-1F7, IL-36 $\gamma$ /IL-1F9 and IL-1F10, respectively.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in 20 mM Tris, 300 mM NaCl, pH 8.0, 5% trehalose.
<b>Bio-activity</b>	Fully biologically active when compared to standard. Measured by its binding ability in

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	a functional ELISA with mouse IL-1 Rrp2.
<b>Molecular Mass</b>	20.9 kDa
<b>AA Sequence</b>	MMAFPPQSCV HVLPPKSIQM WEPNHNTMHG SSQSPRNYRV HDSQQMVWVL TGNTLTAVPA SNNVKPVILS LIACRDTEFQ DVKKGNLVFL GIKNRNLCFC CVEMEGKPTL QLKEVDIMNL YKERKAQKAF LFYHGIEGST SVFQSVLYPG WFIATSSIER QTIILTHQRG KLVNTNFYIE SEK
<b>Endotoxin</b>	Less than 1 EU/μg of rMuIL-36β, 183a.a. as determined by LAL method.
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses.
<b>Usage</b>	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
<b>Storage</b>	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 centigrade to -70 centigrade. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

**Gene Name** [Il1f6 interleukin 1 family, member 6 \[ Mus musculus \]](#)

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<b>Official Symbol</b>	Il1f6
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">54448</a>
<b>mRNA Refseq</b>	<a href="#">NM_019450</a>
<b>Protein Refseq</b>	<a href="#">NP_062323</a>
<b>Function</b>	cytokine activity; interleukin-1 receptor antagonist activity; interleukin-1 receptor binding;

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