

Active Recombinant Mouse Il1f6

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

SPECIFICATION

Product Overview	Recombinant Mouse Il1f6 produced in E. coli is approximately 20.9 kDa, a single non-glycosylated polypeptide chain containing 183 amino acids.
Species	Mouse
Source	E.coli
Description	Interleukin-36 (IL-36) is a pro-inflammatory cytokine which plays an important role in the pathophysiology of several diseases. IL-36 α , IL-36 β , and IL-36 γ (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 β isoform 2 contains one potential N-linked glycosylation site in its C-terminus, while IL-36 β isoform 1 lacks potential N-linked glycosylation sites and four of the conserved β -strands. Within the IL-1 family, IL-36 β /IL-1F8 shares 30 %, 32 %, 37 %, 46 %, 34 %, 45 % and 28 % a.a. sequence identity with IL-1 ra, IL-1 β , IL-36Ra/IL-1F5, IL-36 α /IL-1F6, IL-37/IL-1F7, IL-36 γ /IL-1F9 and IL-1F10, respectively.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM Tris, 300 mM NaCl, pH 8.0, 5% trehalose.
Bio-activity	Fully biologically active when compared to standard. Measured by its binding ability in

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	a functional ELISA with mouse IL-1 Rrp2.
Molecular Mass	20.9 kDa
AA Sequence	MMAFPPQSCV HVLPPKSIQM WEPNHNTMHG SSQSPRNYRV HDSQQMVWVL TGNTLTAVPA SNNVKPVILS LIACRDTEFQ DVKKGNLVFL GIKNRNLCFC CVEMEGKPTL QLKEVDIMNL YKERKAQKAF LFYHGIEGST SVFQSVLYPG WFIATSSIER QTIILTHQRG KLVNTNFYIE SEK
Endotoxin	Less than 1 EU/μg of rMuIL-36β, 183a.a. as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Usage	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
Storage	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.
Reconstitution	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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Official Symbol	IL1F6
Synonyms	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;
Gene ID	54448
mRNA Refseq	NM_019450
Protein Refseq	NP_062323
Function	cytokine activity; interleukin-1 receptor antagonist activity; interleukin-1 receptor binding;

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