



## Interleukin-36 beta, mouse recombinant (rmlL-36beta)

**Catalog No:** 97514  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Interleukin 36 beta, interleukin 1 family member 8 (eta), Interleukin-1 homolog 2, IL1F8 (Canonical product IL-1F8a), IL-1F8 (FIL1-eta), Interleukin-1 Superfamily e, IL1H2, MGC126880, MGC126882

### Background

Mouse IL-36b belongs to the IL-1 family that includes IL-1b, IL-1a, IL-1ra, IL-18, IL-36ra (IL1F5), IL-36b (IL1F8), IL-36g (IL1F9), IL-37 (IL1F7) and IL-38 (IL1F10). The IL-1 family members display a 12 b-strand, b-trefoil configuration, and are thought to have ascended from a mutual ancestral gene. Mouse IL-36b/IL-1F8 is a 183 amino acid protein which holds no signal sequence, no prosegment and no potential N-linked glycosylation site(s). Mouse IL-36b like its human homologue is actively secreted. Mouse IL-36b/IL-1F8 shares 61-74% aa homology with human IL-36b/IL-1F8 isoform 2 and rat IL-1F8.

### Description

IL36B mouse recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 183 amino acids and having a molecular mass of 21.0 kDa. IL-36B is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in 1xPBS, pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized IL36B in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized IL36B, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL36B should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MMAFPQSCV HVLPPKSIQM WEPNHNTMHG SSQSPRNYRV HDSQQMVWVL TGNTLTAVPA SNNVKPVILS LIACRDTEFQ  
DVKKGNLVL GIKNRNLCFC CVEMEGKPTL QLKEVDIMNL YKERKAQKAF LFYHGIEGST SVFQSVLYPG WFIATSSIER  
QTIILTHQRG KLVNTNFYIE SEK

### Activity

Measured by its binding ability in a functional ELISA to bind recombinant mouse IL-1 Rrp2.

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#### Usage

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