

## Recombinant Mouse Interleukin-36B (rm IL-36B/IL1F8)

**Synonyms:** Interleukin-1 family member 8 (eta), IL1H2, MGC126880.

**Introduction:** rm 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 (IL-1F10). 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:** Recombinant mouse IL-36B produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 183 amino acids and having a molecular mass of 21.0kDa.  
The IL-36B is purified by proprietary chromatographic techniques.

**Source:** *Escherichia coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from a 0.2µm filtered concentrated solution in 1x PBS, pH 7.4.  
The aliquotes of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

**Solubility:** It is recommended to reconstitute the lyophilized rm IL-36B in sterile H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized rm IL-36B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution it should be stored at 4°C between 2-7days, for future use below -18°C.  
Please prevent freeze-thaw cycles.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Amino acid sequence:** MMAFPPQSCV HVLPPKSIQM WEPNHNTMHG SSQSPRNYRV HDSQQMVWVL  
TGNTLTAVPA SNNVKPVILS LIACRDTEFQ DVKKGNLVFL GIKNRNLCFC CVEMEGKPTL QLKEVDIMNL  
YKERKAQKAF LFYHGIEGST SVFQSVLYPG WFIATSSIER QTIILTHQRG KLVNTNIFYIE SEK

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

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<i>small</i>	2 µg	Cat.N°	12349362
<i>medium</i>	10 µg	Cat.N°	12349363

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