



## Interleukin-36 beta, human recombinant (rHuIL-36beta)

**Catalog No:** 97513  
**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

Human 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. IL-36 beta is known to be actively secreted. Cells expressing IL-36 beta include resting and activated monocytes and B cells. The receptor for IL-36 beta is a blend of IL-1 Rrp2 and IL-1 RAcP. Recombinant IL-36 beta stimulates processes involving NF-kB and MAPK in an IL-1 Rrp2-dependent manner.

### Description

IL36B human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 157 amino acids and having a molecular mass of 17.7 kDa. IL36B 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

MNPQREAAPK SYAIRDSRQM VVVLSGNSLI AAPLSRSIKP VTLHLIACRD TEFSDKEKGN MVYLGIGKGD LCLFCAEIQG  
KPTLQLKEKN IMDLYVEKKA QKPFLFFHNK EGSTSVFQSV SYPGWFIATS TTSGQPIFLT KERGITNNTN FYLDSVE

### Activity

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

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#### Usage

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