



## Interleukin-1 Family Member 5, human recombinant (rHuIL-1F5)

**Catalog No:** 97486  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Interleukin-36 receptor antagonist protein, FIL1 delta, IL-1-related protein 3, IL-1RP3, Interleukin-1 HY1, IL-1HY1, Interleukin-1 delta, IL-1 delta, Interleukin-1 family member 5, IL-1F5, Interleukin-1 receptor antagonist homolog 1, IL-1ra homolog 1, Interleukin-1-like protein 1, IL-1L1, IL36RN, FIL1D, IL1F5, IL1HY1, IL1L1, IL1RP3, FIL1, PSORP, IL36RA, FIL1(DELTA)

### Background

Human interleukin family 1, member 5 (IL-1F5 / FIL1-delta) belongs to the interleukin 1 cytokine family. IL1F5 is expressed by a variety of cells including monocytes, Bcells, dendritic cells/Langerhans cells, keratinocytes, and gastric fundus Parietal and Chief cells. IL1F5 is an antagonist of IL1F9; however IL1F5 activity related to receptor binding remains unclear. Human and mouse IL1F5 share 90% amino acid sequence identity.

### Description

Interleukin-1F5 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17 kDa. IL1F5 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

IL1F5 was lyophilized after extensive dialysis against 20 mM phosphate buffer, pH 7.4.

### Solubility

It is recommended to quick spin followed by reconstitution of IL1F5 in PBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized IL1F5, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL1F5 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 (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Met-Val-Leu-Ser-Gly.

### Activity

As measured by its binding ability in a functional ELISA, immobilized IL1F5 at 1 µg/ml (100 µl/well) can bind rHuIL-1 Rrp2/Fc Chimera with a linear range of 0.15- 5 µg/ml.

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### Usage

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