

# Recombinant Human IL37 / IL1F7 / IL-1H4



**Sino Biological Inc.**  
Biological Solution Specialist

Catalog Number: 10155-HNAE

## General Information

### Gene Name Synonym:

IL37, FIL1, FIL1(ZETA), FIL1Z, IL-1F7, IL-1H, IL-1H4, IL-1RP1, IL-37, IL1F7, IL1H4, IL1RP1

### Protein Construction:

A DNA sequence encoding the mature form of human IL1F7 isoform A (Q9NZH6-2) (Lys 27-Asp 192) was expressed and purified, with an initial Met.

**Source:** Human

**Expression Host:** E.coli

## QC Testing

**Purity:** > 96 % as determined by SDS-PAGE.

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

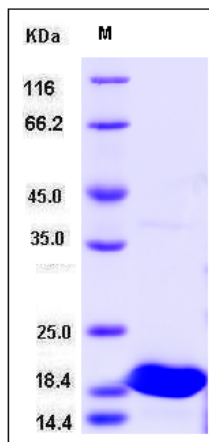
The recombinant human IL1F7 consisting of 167 amino acids and has a calculated molecular mass of 18.7 KDa. It migrates as an 25 kDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from 0.2µm filtered solution of PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

### SDS-PAGE:



## Usage Guide

### Storage:

Store it under sterile conditions at -70°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## Protein Description

Interleukin 1 family member 7, or interleukin 37 (IL1F7 / IL37 / IL-1H4) is a secretory protein belonging to the Interleukin 1 family. IL-1F7 was localized in human peripheral monocytic cells. It has been localized the expression of IL-1F7b protein in discrete cell populations including plasma cells and tumor cells. These data suggest that IL-1F7 may be involved in immune response, inflammatory diseases and / or cancer. Through constructing an adenoviral vector that allows high level expression in murine and human cells, it has been demonstrated that the ability of adenovirus-mediated gene transfer of IL1F7 to induce an IL-12- and Fas ligand-dependent anti-tumor response. Complete inhibition of tumor growth was observed following multiple injections of IL1F7 in the most animals. These results suggest that IL1F7 could play a role in both innate and adaptive immune responses, similar to IL-18. Moreover, IL1F7 could be useful for cancer gene therapy.

### References

1. Gao W. et al., 2003, J Immunol. 170 (1): 107-13.
2. Bufler P. et al., 2002, Proc Natl Acad Sci. 99( 21): 13723-8.
3. Kumar S. et al., 2002, Cytokine. 18 (2): 61-71.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>