

Human IL37 / IL1F7 / IL-1H4 Protein



Sino Biological
Biological Solution Specialist

Catalog Number: 10155-HNAE

General Information

Gene Name Synonym:

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

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.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

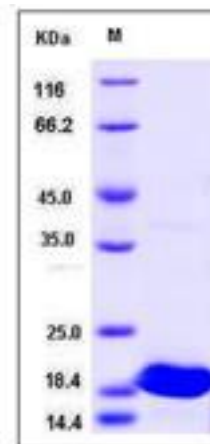
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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) Innate immunity mediated by the cytokine IL-1 homologue 4 (IL-1H4/IL-1F7) induces IL-12-dependent adaptive and profound antitumor immunity. *J Immunol.* 170 (1): 107-13. 2.Bufler P, *et al.* (2002) A complex of the IL-1 homologue IL-1F7b and IL-18-binding protein reduces IL-18 activity. *Proc Natl Acad Sci.* 99 (21): 13723-8. 3.Kumar S, *et al.* (2002) Interleukin-1F7B (IL-1H4 / IL-1F7) is processed by caspase-1 and mature IL-1F7B binds to the IL-18 receptor but does not induce IFN-gamma production. *Cytokine.* 18 (2): 61-71.

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For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

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