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# Recombinant Human Interleukin 1 Family, Member 10, Theta (IL1F10)

Catalog No.	Size	Species	Protein Accession No.
230-00033	10, 50, 100 µg	Human	AAI03967

### Synonyms

Interleukin 1 family, member 10 (theta); IL1-theta; IL-1F10 (canonical form IL-1F10a); interleukin-1 HY2; interleukin-1 receptor antagonist-like FIL1 theta; interleukin-1 theta.

### Description

**Interleukin 1 family, member 10, theta (IL1F10)** is a secreted cytokine belonging to the family of the interleukin 1 cytokine. This cytokine as a 152 amino acid mature protein is recognized to participate in a network of interleukin 1 family members and regulate adapted and innate immune responses. Human IL-1F10 shares 82% protein sequence identity with mouse IL-1F10.

### Preparation

The gene encoding the full length of human IL1F10 protein was cloned and expressed in *Escherichia coli*. The recombinant IL1F10 protein was purified by proprietary chromatographic techniques.

### Source

Recombinant protein, purified from *E. coli*.

### Predicted Molecular Mass

~16.5 kDa.

### Formulation & Reconstitution

- Fine white powder, lyophilized.
- Recombinant IL1F10 was lyophilized from a 0.2 µm filtered phosphate-buffered saline (PBS) with a protein concentration of 0.65 mg/mL.

- It is recommended to briefly spin the vial prior to opening, bring the contents to the bottom, and reconstitute the lyophilized product with sterile 18 MΩ-cm deionized water or your desired buffer.

### Stability & Storage

- Lyophilized product is stable at room temperature for 3 weeks, it is recommended to be stored desiccated below -20°C in a manual defrost freezer.
- Upon reconstituted, the protein should be stored at 4°C for one week. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA) and store at -20 or -80°C. **Please avoid repeated freeze-thaw cycles.**

### Purity

>95%, determined by SDS-PAGE and stained with Coomassie blue.  
(see image on the right)



### References

- Lin, H., et al. (2001) Cloning and characterization of IL-1HY2, a novel interleukin-1 family member. *J. Biol. Chem.* 276 (23): 20597-602.
- Bensen JT, et al. (2001) Identification of a novel human cytokine gene in the interleukin gene cluster on chromosome 2q12-14. *J Interferon Cytokine Res* 21 (11): 899-904.
- Nicklin MJ, et al. (2002) A sequence-based map of the nine genes of the human interleukin-1 cluster. *Genomics.* 79 (5): 718-25.
- Taylor SL, et al. (2002) Genomic organization of the interleukin-1 locus. *Genomics.* 79 (5): 726-33.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**