

Recombinant Human IL37 Protein

Cat. No. IL37-108H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interleukin-37 is produced by our E.coli expression system and the target gene encoding Lys53-Asp218 is expressed.
Species	Human
Source	E.coli
ProteinLength	53-218 a.a.
Description	Human Interleukin family 1 Member 7 (IL1F7) is a member of the Interleukin 1 cytokine family. Five alternatively spliced transcript variants encoding distinct isoforms have been reported with distinct expression profiles. The longest IL1F7 transcript, referred to as IL1F7b or IL1F7 isoform 1, encodes a 218 amino acid residues proprotein containing a 45 amino acid propeptide, which is cleaved to generate mature protein. IL1F7b binds to IL18 Rα with low affinity but does not exert any IL18 agonistic or antagonistic effects. IL1F7b also binds interleukin 18 binding protein (IL-18BP), an inhibitory binding protein of interleukin 18 (IL-18), and subsequently forms a complex with IL18 receptor beta subunit, and through which it inhibits the activity of IL-18.
Form	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, 2mM DTT, pH 7.4
Molecular Mass	Predicted Molecular Weight: 18.7kDa Apparent Molecular Weight: 18kDa, reducing conditions.

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AA Sequence	Lys53-Asp218
Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>95%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Statement	Purity Greater than 95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	IL37 interleukin 37 [Homo sapiens (human)]
Official Symbol	IL37
Synonyms	Interleukin-37; FIL1 Zeta; IL-1X; Interleukin-1 Family Member 7; Interleukin-1 Homolog 4; IL-1H; IL-1H4; Interleukin-1 Zeta; IL-1 Zeta; Interleukin-1-Related Protein; IL-1RP1; Interleukin-23; FIL1; FIL1Z; IL-1H; IL-23; IL-37; IL1F7; IL1H4; IL-1F7; IL-1H4; IL1RP1; IL-1RP1; FIL1(ZETA)

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Gene ID	27178
mRNA Refseq	NM_014439.4
Protein Refseq	NP_055254.2
MIM	605510
UniProt ID	Q9NZH6
SDS-PAGE	