

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 R α 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	