Active Recombinant Human IL37 protein, His-tagged

Cat. No. IL37-0188H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human IL37 protein(Q9NZH6)(27-192 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	27-192 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interleukin 37, also known as Interleukin 1 Zeta (IL1z), is an anti-inflammatory cytokine. Interleukines are cytokines that make an important part of immune signaling. It belongs to the interleukin-1 family. IL-37 plays a role in protecting the body against endotoxin shock, ischemia-reperfusion injury, autoimmune diseases, and cardiovascular diseases. In addition, IL-37 has a potential antitumor effect. Besides, Interleukin 18 Receptor 1 (IL18R1) has been identified as an interactor of IL1z, thus a binding ELISA assay was conducted to detect the interaction of recombinant human IL1z and recombinant human IL18R1. Briefly, IL1z were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100µl were then transferred to IL18R1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IL1z pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were

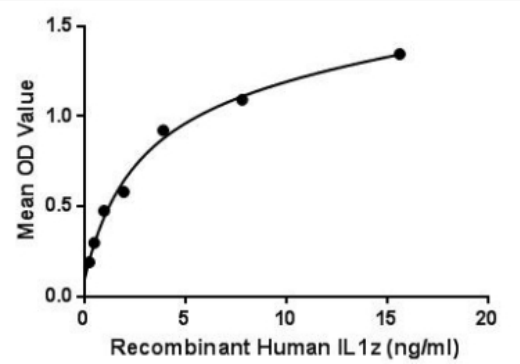
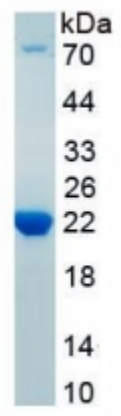
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	incubated 15-25 minutes at 37°C. Finally, add 50µstop solution to the wells and read at 450nm immediately. The binding activity of IL1z and IL18R1 was shown, and this effect was in a dose dependent manner.
Molecular Mass	22.0kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	IL37 interleukin 37 [Homo sapiens]
Official Symbol	IL37
Synonyms	IL37; interleukin 37; IL1F7, interleukin 1 family, member 7 (zeta); interleukin-37; FIL1; FIL1(ZETA); FIL1Z; IL 1F7; IL 1H4; IL 1RP1; interleukin 1; zeta; interleukin 1 homolog 4; interleukin 1 related protein; FIL1 zeta; IL-1 zeta; IL-1X protein; interleukin-23; interleukin 1, zeta; interleukin-1 homolog 4; interleukin-1 superfamily z; interleukin 1 family member 7; interleukin-1-related protein; IL-1F7b (IL-1H4, IL-1H, IL-1RP1); IL1F7 (canonical product IL-1F7b); IL-1H; IL-37; IL1F7; IL1H4; IL-1F7; IL-1H4; IL1RP1; IL-1RP1;
Gene ID	27178

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mRNA Refseq	NM_014439
Protein Refseq	NP_055254
MIM	605510
UniProt ID	Q9NZH6
Activity	
SDS-PAGE	

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