Recombinant Human IL37 protein, His-tagged

Cat. No. IL37-159H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL37 (Val46-Asp218) protein was fused to His-tag at N-terminus and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Val46-Asp218
Description	Interleukin-1 family member 7 (IL1F7b) ,a member of the IL-1 family, is aslo known as interleukin-37, interleukin-1 homolog 4 (IL-1H4), interleukin-1 zeta (IL-1 zeta) and interleukin-1-related protein, which can interact with SMAD3 and bind to IL18R1, but not to IL1R1, with lower affinity than IL18. IL1F7b is a suppressor of innate inflammatory and immune responses involved in curbing excessive inflammation. This function requires SMAD3. Therefore,IL1F7b can suppress, or reduce, proinflammatory cytokine production, including IL1A and IL6, as well as CCL12, CSF1, CSF2, CXCL13, IL1B, IL23A and IL1RN, but spare anti-inflammatory cytokines. Furthermore,IL1F7b can also inhibit dendritic cell activation.
Predicted N Terminal	Val46
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 20.3 kDa. The protein migrates as 20.3 kDa under reducing (R) condition (SDS-PAGE).

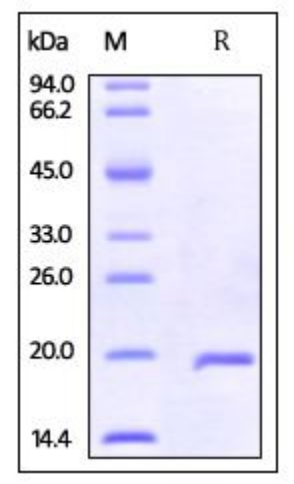
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Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL37
Official Symbol	IL37
Synonyms	FIL1; FIL1Z; IL-1H; IL-37; IL1F7; IL1H4; IL-1F7; IL-1H4; IL1RP1; IL-1RP1; FIL1(ZETA)
Gene ID	27178
mRNA Refseq	NM_014439.3
Protein Refseq	NP_055254.2
MIM	605510

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UniProt ID	Q9NZH6
SDS-PAGE of IL37-159H	 Human IL-37, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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