

RP02509

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Recombinant Human IL-37/IL-1F7 Protein

Catalog No.: RP02509

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
E. coli	27178	Q9NZH6

Tags

C-His

Synonyms

IL37;FIL1;FIL1(ZETA);FIL1Z;IL-1F7;IL-1H;IL-1H4;IL-1RP1;IL-37;IL1F7;IL1H4;IL1RP1

Product Information

Source

E. coli

Purification

> 95% by SDS-PAGE.

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Decreasing synthesis of IL-37 in PBMCs will cause increasing production of pro-inflammatory cytokines such as IL-1 alpha, IL-1 beta, IL-6 and TNF- alpha. The IL-37 work as an innate inflammatory inhibitor is also proved by its high expression in synovial tissue from rheumatoid arthritis patients. Full length IL-37 locates mainly in the cytoplasm, and it can translocate to the nucleus after activation through cleavage by CASP1, then exerts its activity by directly interacting with SMAD3.

Basic Information

Description

Recombinant Human IL-37 Protein is produced by Escherichia coli expression system. The target protein is expressed with sequence of Human IL-37 (Accession #NP_775297.1) fused with His at C terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human IL37 (Catalog #RP02509) at 2 μg/mL (100 μL/well) can bind Human IL18BP (Catalog #RP00162) with a linear range of 4.5-133.78 ng/mL.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

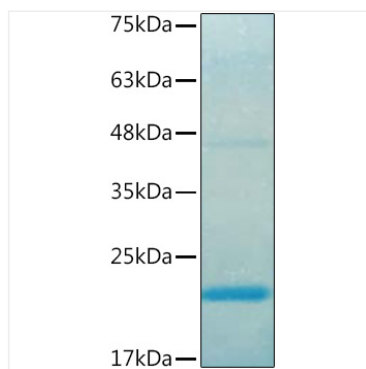
Contact



www.abclonal.com

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Recombinant Human IL-37/IL-1F7
Protein was determined by SDS-
PAGE under reducing conditions with
Coomassie Blue.