

RMCH044

Recombinant IL-37 (Interleukin-37), Human , AF



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5ug;20ug;100ug;500ug;

Synonym/Alternative name(s):

IL-1F7, IL-1 ζ (zeta), IL-1H4, FIL1, FIL1Z

Activity:

Measure by its ability to induce IL-8 secretion in human PBMCs.

The ED50 for this effect is <0.9 μ g/mL.

Protein Description:

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.

Protein Accession : Q9NZH6.1

Gene ID : 27178

Expression Sequence:

MKLNLPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAIEKGPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKL
AAQKESARRPFIFYRAQVGSWNMLESAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD with
polyhistidine tag at the C-terminus.

Fusion tag : His-tag?at?the?C-terminus

Species : Human

Reactivity : Human

Expression Host : Escherichia coli

Source : E. coli

Purity/method:

>95% as determined by SDS-PAGE.

Ni-NTA chromatography.

Endotoxin level:

<0.1 EU per 1 μ g of the protein by the LAL method.

Calculated Molecular Weight : 19.49 kDa

Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 μ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice

Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

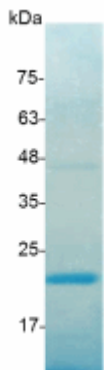
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of recombinant human IL-37