

Recombinant Human IL37 / Interleukin-37,

Animal Free & Carrier Free

Cat #: C-CYP209 Size: 5µg, 20µg, 100µg, 500µg, 1mg Shipping: Blue Ice

Product Overview

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.

Product Information

Source: Escherichia Coli.

Purity: >95% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to induce IL-8 secretion in human PBMCs. The ED₅₀ for this effect is < 0.9

μg/mL.

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

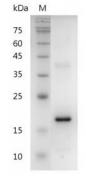
Amino acid sequence:

MKNLNPKKFSIHDQDHKVLVLDSGNLIAVPDKNYIRPEIFFALASSLSSASAEKGSPILLGVSKGEFCLYCDKDKGQSHPSLQLKKEKLMKLAA QKESARRPFIFYRAQVGSWNMLESAAHPGWFICTSCNCNEPVGVTDKFENRKHIEFSFQPVCKAEMSPSEVSD with polyhistidine tag at the C-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 8.0.







SDS-PAGE analysis of recombinant human IL-37

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.

2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.

3. The reconstituted solution can be stored at 2-8°C for up to 1 week.

4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 μ g/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.

