

# Human IL-37b Protein

Cat. No. ILB-HE037



## Description

<b>Source</b>	Recombinant Human IL-37b Protein is expressed from E.coli without tag. It contains Val46~Asp218.
<b>Accession</b>	Q9NZH6-1
<b>Molecular Weight</b>	The protein has a predicted MW of 19.30 kDa same as Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 90% as determined by HPLC

## Formulation and Storage

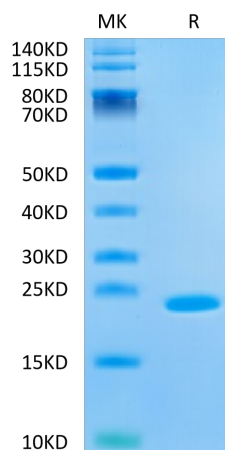
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in 20mM PB, 150mM NaCl, 2mM DTT (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

IL-37 is a unique member of the IL-1 family of cytokines, which functions as a natural suppressor of inflammatory and immune Interleukin-37 (IL-37), a newly described member of IL-1family, functioned as a fundamental inhibitor of innate inflammatory and immune responses. IL-37 has five different isoforms, and IL-37b is the most biologically functional subtype. IL-37b Inhibits PGN Induced Cytokines and Chemokines via the Downregulation of Intracellular Nuclear Factor (NF)-κB, PI3K–Akt, and ERK1/2 Pathways.

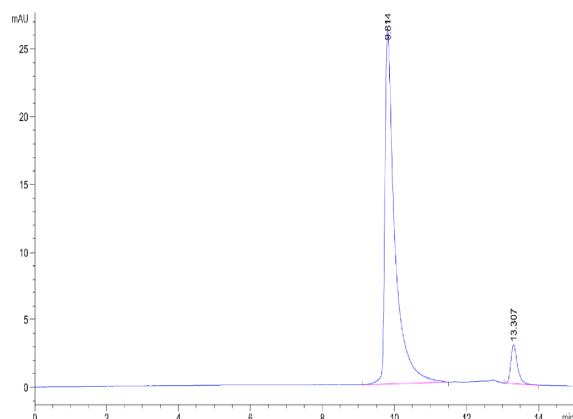
## Assay Data

### Tris-Bis PAGE



Human IL-37b on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human IL-37b is greater than 90% as determined by SEC-HPLC.