

## Datasheet for ABIN1344168

### IL-37 Protein (His tag)



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#### Overview

Quantity:	10 µg
Target:	IL-37 (IL37)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-37 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

#### Product Details

Purpose:	IL-37 (aa 46-218) (human) (rec.) (His)
Cross-Reactivity:	Human
Characteristics:	Human IL-37 (aa Val46-Asp218) is fused at the C-terminus to a His-tag.
Purity:	>95 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<0.1EU/µg purified protein (LAL test).

#### Target Details

Target:	IL-37 (IL37)
Alternative Name:	IL-37 ( <a href="#">IL37 Products</a> )
Background:	Interleukin-1 Family Member 7, IL-1F7, FIL1 zeta, IL-1X, Interleukin-1 Homolog 4, IL-1H4,

## Target Details

Interleukin-1 zeta, IL-1 zeta, IL-1RP1, IL1F7, FIL1Z, IL1H4, IL1RP1

IL-37 (IL-1F7, IL-1H4) is an IL-1 family member that is expressed only in certain types of human organs and cells such as heart, thymus, testis, kidney, mononuclear cells (PBMCs) and dendritic cells. IL-37 is an inhibitor of innate immunity with anti-inflammatory properties. It binds to the interleukin-18 receptor (IL-18R) and its co-receptor SIGIRR. IL-37 is secreted as a full-length and as a processed form starting from amino acid Val46. It plays an important role as a link between innate and adaptive immunity and acts as an inhibitor of autoimmune diseases and tumor growth. IL-37 also inhibited Lipopolysaccharide (LPS)-induced immunological reaction and LPS-induced osteoclast formation and bone resorption.

Molecular Weight: ~20kDa (SDS-PAGE)

UniProt: [Q9NZH6](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Reconstitute in distilled water.

Concentration: Lot specific

Buffer: Lyophilized from 0.2µm-filtered solution in 55 mM TRIS-Cl, pH 8.2, containing 150 mM NaCl.

Handling Advice: After reconstitution, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C

Long Term Storage: -20°C

Use & Stability: Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.

Expiry Date: 6 months