


## Human IL-37 Protein, His tag (Animal-Free)

Cat #: PRP1906

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Human IL-37 Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1906	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 95 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E.coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** Human interleukin-1 family member 7 (IL-37) is a member of interleukin-1 cytokine family. It is reported that five alternative splicing transcript variants encoding different subtypes have different expression profiles. The longest IL-37 transcript is called IL-37b or IL-37 isoform 1, which encodes a propeptide with 218 amino acid residues and a propeptide with 45 amino acids, and is cleaved to produce a mature protein. IL37b binds to IL18 R $\alpha$  with low affinity, but does not produce any IL-18 excitation or antagonism.

**Sequence:** Amino acid sequence derived from Human IL-37 (Lys53-Asp218) (Q9NZH6) was expressed with 6×His tag at the C-terminus.

**Protein length:** The recombinant Human IL-37 Protein consists of 166 amino acids and predicts a molecular mass of 18.7 kDa.

**Biological Activity:** Measured by its ability to induce IL-8 secretion in human PBMCs. The ED<sub>50</sub> for this effect is <0.9 µg/mL.

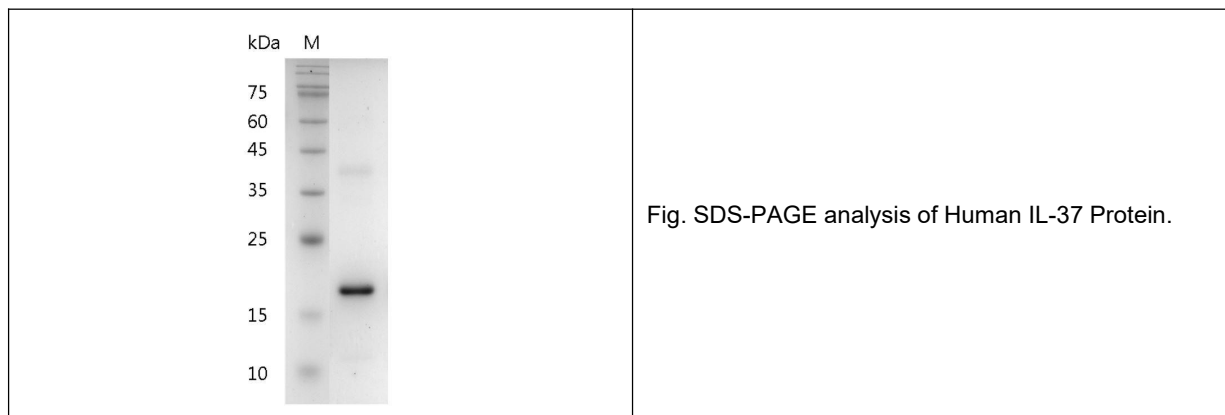
**Endotoxin:** <0.1 EU per µg of the protein by the LAL method.

**Formulation:** Lyophilized from sterile PBS, pH 8.0.

**Storage Instructions:** Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully

dissolve. Please avoid vortex vigorously.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.