

## Animal-Free IL-36RN Protein, Human (His)

<b>Cat. No.:</b>	HY-P700127AF
<b>Synonyms:</b>	IL-36RA; IL-36Ra; Interleukin-36 Receptor Antagonist Protein; IL-1RP3; Interleukin-1; Interleukin-1 Family Member 5; IL-1F5; Interleukin-1-Like Protein 1; IL-1L1; IL36RN; FIL1D; IL1F5; IL1HY1; IL1RP3
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q9UBH0 (M1-T108)
<b>Gene ID:</b>	26525
<b>Molecular Weight:</b>	Approximately 17.77 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>M V L S G A L C F R    M K D S A L K V L Y    L H N N Q L L A G G    L H A G K V I K G E</p> <p>E I S V V P N R W L    D A S L S P V I L G    V Q G G S Q C L S C    G V G Q E P T L T L</p> <p>E P V N I M E L Y L    G A K E S K S F T F    Y R R D M G L T</p>
<b>Biological Activity</b>	Measure by its ability to inhibit IL-36 gamma-induced IL-8 secretion in PBMC cells. The ED <sub>50</sub> for this effect is <2 ng/mL in the presence of 500 ng/mL of recombinant human IL-36 gamma.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>IL-36RN protein assumes a critical role in immune regulation by inhibiting the activity of interleukin-36 (IL36A, IL36B, and IL36G). This inhibition is achieved through its binding to the IL-36 receptor (IL1RL2), preventing its association with the coreceptor IL1RAP, thus impeding downstream signaling. As part of the IL-36 signaling system, analogous to the IL-1 system, IL-36RN is believed to function in epithelial barriers, contributing to local inflammatory responses. This protein is implicated in skin inflammation and is proposed to participate in the innate immune response against fungal pathogens, exemplified by its potential role in countering <i>Aspergillus fumigatus</i>. Furthermore, IL-36RN may activate an anti-inflammatory signaling pathway by recruiting SIGIRR. Notably, its interaction with the cargo receptor TMED10 facilitates translocation from the</p>
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cytoplasm into the ERGIC, enabling secretion and underscoring its multifaceted regulatory functions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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