

# Active Recombinant Human Interleukin 36 Receptor Antagonist

**Cat. No.** IL36RN-5660H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL36RN protein was expressed in E. coli. Val2-Asp155.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Protein Length</b>	2-155 a.a.
<b>Description</b>	IL36RN is a member of the IL-1 family of proteins. IL-1 family members include IL-1 $\beta$ , IL-1 $\alpha$ , IL-1ra, IL-18 and IL-1F5-F10. All family members show a 12 $\beta$ -strand, $\beta$ -trefoil configuration, and all family members are believed to have arisen from a common ancestral gene that underwent multiple duplications. The human IL-36Ra/IL-1F5 gene is in closest proximity to the gene for IL-1ra and is likely a relatively recent duplication of the IL-1ra gene.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with BSA as a carrier protein.
<b>N-terminal Sequence</b>	Val2
<b>Molecular Weight</b>	17 kDa
<b>Activity</b>	Measured by its ability to inhibit IL-36 $\alpha$ , IL-36 $\beta$ or IL-36 $\gamma$ -induced IL-8 secretion by human preadipocytes. The ED50 for this effect is typically 0.25-1.25 $\mu$ g/mL in the presence of 20 ng/mL of recombinant human IL-

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36β. Measured by its bindingability in a functional ELISA. Immobilized recombinant human IL-36Ra at 1μg/mL (100 μL/well) can bind recombinant human IL-1 Rrp2 Fc Chimera with alinear range of 0.15-5 μg/mL.

**Endotoxin Level** <1.0EU per 1μg of the protein by the LAL method.

**SDS-PAGE** 65 kDa, reducing conditions.

**Purity** >90%, by SDS-PAGE under reducing conditions and visualized by silver stain.

**Reconstitution** 100 μg/mL in sterile PBS

**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

**Gene Name** [IL36RN interleukin 36 receptor antagonist \[ Homo sapiens \]](#)

**Official Symbol** [IL36RN](#)

**Synonyms** IL36RN; interleukin36 receptor antagonist; FIL1; FIL1D; IL1F5; IL1L1; PSORP; IL1HY1; IL1RP3; IL36RA; FIL1 (DELTA); interleukin-36 receptor antagonist protein; IL-1rahomolog 1; interleukin-1 HY1; IL-1 related protein 3; interleukin-1-like protein 1; family of interleukin 1-delta; IL1F5 (Canonical product IL-1F5a); interleukin 1 family, member 5 (delta); interleukin-1 receptor antagonist homolog 1; IL-1F5 (IL-1HY1, FIL1-delta, IL-1RP3, IL-1L1, IL-1-delta)

**Gene ID** [26525](#)

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<b>mRNA Refseq</b>	NM_012275
<b>Protein Refseq</b>	NP_036407
<b>MIM</b>	605507
<b>UniProt ID</b>	Q9UBH0
<b>Chromosome Location</b>	2q14
<b>Function</b>	cytokine activity;interleukin-1 receptor antagonist activity

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