

Growth Factor Data Sheet

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Interleukin-36 receptor antagonist (IL36RN) is a secreted protein which belongs to the interleukin 1 cytokine family (IL1 family) and is predominantly expressed in keratinocytes but not in fibroblasts, endothelial cells or melanocytes. IL36RN has been reported to antagonize the biological activity of IL36A (IL1F6), IL36B (IL1F8), and IL36G (IL1F9). Furthermore, it could constitute part of an independent signaling system analogous to IL1A, IL1B receptor agonist and interleukin-1 receptor type I (IL1R1). However, the receptor for IL36RN has not been positively identified. Indirect evidence suggests that IL1Rrp2 is its receptor. Recombinant human IL36RN contains 154 amino acid residues and shares 91% amino acid sequence identity with murine IL36RN.

Catalog Number	1110-36G
Product Name	IL36RN (IL-36RA), Human Recombinant Human Interleukin-36RA IL36RA, IL36RN Interleukin 1 Receptor Antagonist Homolog 1 (IL1HY1) Interleukin 1 Family, Member 5 (IL1F5) Family of Interleukin 1- δ (FIL1- δ)
Source	<i>Escherichia coli</i>
MW	~16.8 kDa (154 amino acids)
Sequence	VLSGALCFRM KDSALKVLYL HNNQLLAGGL HAGKVIK GEE ISVVPNRWLD ASLSPVILGV QGGSQCLSCG VGQEPTLTLE PVNIMELYLG AKESKSFTFY RRDMLGTTSSF ESAAYPGWFL CTVPEADQPV RLTQLPENGG WNAPITDFYF QQCD
Accession Number	Q9UBH0
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by inhibiting IL-36 beta induced IL-8 secretion by human preadipocytes is less than 1.0 μ g/ml, corresponding to a specific activity of >1000 IU/mg in the presence of 20 ng/ml of recombinant human IL-36 beta.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.