

Recombinant Human Interleukin-36 Receptor Antagonist Protein (rHuIL-36RA)

PrimeGene Technical Data Sheet

Catalog Number:	101-36G
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 16.8 kDa, a single non-glycosylated polypeptide chain containing 154 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	VLSGALCFRM KDSALKVLYL HNNQLLAGGL HAGKVIK GEE ISVVPNRWLD ASLSPVILGV QGGSQCLSCG VGQEPTLTLE PVNIMELYLG AKESKSFTFY RRDMGLTSSF ESAAYPGWFL CTVPEADQPV RLTQLPENGG WNAPITDFYF QQCD
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 µg/ml, corresponding to a specific activity of > 1000 IU/mg in the presence of 20 ng/ml of recombinant human IL-36 beta.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rHuIL-36RA as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Human Interleukin-36 Receptor Antagonist Protein

Interleukin-36 receptor antagonist (IL-36RA) is a secreted protein which belongs to the interleukin 1 cytokine family (IL-1 family) and it is predominantly expressed in keratinocytes but not in fibroblasts, endothelial cells or melanocytes. IL-36RA has been reported to antagonize the biological activity of IL-36 α (IL-1F6), IL-36 β (IL-1F8), and IL-36 γ (IL-1F9). Furthermore, it could constitute part of an independent signaling system analogous to interleukin-1 alpha (IL-1A), beta (IL-1B) receptor agonist and interleukin-1 receptor type I (IL-1R1). In addition, The receptor for IL-36RA has not been positively identified. Indirect evidence suggests it is IL-1Rrp2. Recombinant human IL-36 RA contains 154 amino acid residues and it shares 91 % a.a. sequence identity with murine IL-36RA.