

**PrimeGene™** Recombinant Human Interleukin-36 alpha, 158a.a.  
a biotechne brand (rHuIL-36α, 158a.a.)

**PrimeGene Technical Data Sheet**

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<b>Catalog Number:</b>	101-36A
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 17.7 kDa, a single non-glycosylated polypeptide chain containing 158 amino acids.
<b>Quantity:</b>	2μg/10μg/1000μg
<b>AA Sequence:</b>	MEKALKIDTP QQGSIQDINH RVWVLQDQTL IAVPRKDRMS PVTIALISCR HVETLEKDRG NPIYLG LNLGL NLCLMCAKVG DQPTLQLKEK DIMDLYNQPE PVKSFLFYHS QSGRNSTFES VAFPGWFI AV SSEGGCPLIL TQELGKANTT DFGLTMLF
<b>Purity:</b>	> 95 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The specific activity determined by its ability in a functional ELISA. Immobilized rHuIL-36α at 1 μg/mL can bind recombinant human IL-1 Rrp2 Fc Chimera with a range of 0.15-5 μg/mL.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 μm filtered concentrated solution in 2 × PBS, pH 7.4.
<b>Endotoxin:</b>	Less than 1 EU/μg of rHuIL-36α, 158a.a. as determined by LAL method.
<b>Reconstitution:</b>	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.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>

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***Human Interleukin-36 alpha***

Interleukin-36 (IL-36) is a pro-inflammatory cytokine which plays an important role in the pathophysiology of several diseases. IL-36α, IL-36β, and IL-36γ (formerly IL-1F6, IL-1F8, and IL-1F9) are IL-1 family members that signal through the IL-1 receptor family members IL-1Rrp2 (IL-1RL2) and IL-1RAcP. Studies showed IL-36α is mainly found in skin and lymphoid tissues, but also in fetal brain, trachea, stomach and intestine. Notably, IL-36 alpha is the only novel IL-1 family member expressed on T-cells. Recombinant human interleukin-36 alpha contains 158 amino acids residues which is a single non-glycosylated polypeptide and it is 30 % a.a. identical to IL-1ra, and 27 %, 31 %, 36 %, 46 %, 57% and 28 % a.a. identical to IL-1β, IL-36Ra/IL-1F5, IL-37/IL-1F7, IL-36β/IL-1F8, IL-36γ/IL-1F9 and IL-1F10.