

# Growth Factor Data Sheet

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Interleukin-36A (IL36A) is a pro-inflammatory cytokine that plays an important role in the pathophysiology of several diseases. IL36A, IL36B and IL36G (formerly IL1F6, IL1F8, and IL1F9) are IL1 family members that signal through the IL1 receptor family members IL1Rrp2 (IL1RL2) and IL1RAcP. Studies have shown that IL36A is mainly found in the skin and lymphoid tissues, as well as fetal brain, trachea, stomach and intestine. Notably, IL36A is the only novel IL1 family member expressed on T-cells. IL36A contains 158 amino acid residues which make up a single nonglycosylated polypeptide that is 30% homologous in amino acid sequence to IL1ra, and 27%, 31%, 36%, 46%, 57% and 28% homologous to IL1G, IL36Ra/IL1F5, IL37/IL1F7, IL36G/IL1F8, IL36H/IL1F9 and IL1F10 respectively.

<b>Catalog Number</b>	<b>1110-36A</b>
<b>Product Name</b>	<b>IL36A (IL-36 alpha), Human (158 a.a.)</b> Recombinant Human Interleukin-36α IL35A IL36α Interleukin 36α Interleukin 1 Family, Member 6 (IL1F6)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~17.7 kDa (158 amino acids)
<b>Sequence</b>	MEKALKIDTP QQGSIQDINH RVWVLQDQTL IAVPRKDRMS PVTIALISCR HVETLEKDRG NPIYGLNGL NLCLMCAKVG DQPTLQLKEK DIMDLYNQPE PVKSFLFYHS QSGRNSTFES VAFPGWFIIV SSEGGCPLIL TQELGKANTT DFGLTMLF
<b>Accession Number</b>	<a href="#">Q9UHA7</a>
<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>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	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.
<b>Reconstitution</b>	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.