

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 all IL1 family members that signal through the IL1 receptor family members IL1Rrp2 (IL1RL2) and IL1RAcP. IL36A is mainly found in skin and lymphoid tissues, but can also be found in fetal brain, trachea, stomach and intestine. IL36A is expressed by monocytes, B-cells and T-cells. Notably, IL36A is the only novel IL1 family member expressed on T-cells. Recombinant murine IL36A contains 153 amino acid residues, which compose a single nonglycosylated polypeptide. Specifically, mouse IL36A shares 83% amino acid sequence identity with rat IL36A, 54-60% with human, rabbit, equine and bovine IL36A.

Catalog Number	1310-36B
Product Name	IL36A (IL-36 alpha), Murine (153 a.a.) Recombinant Murine Interleukin-36α IL36A, IL36α Interleukin 36α Interleukin 1 Family, Member 6 (IL1F6)
Source	<i>Escherichia coli</i>
MW	~17.1 kDa (153 amino acids)
Sequence	RAASPSLRHV QDLSSRVWIL QNNILTAVPR KEQTVPTIT LLPCQYLDL ETNRGDPTYM GVQRPMSCLF CTKDGEQPV LQLGEGNIMEM YNKKEPVKAS LFYHKKSGTT STFESAAPFG WFIIVCSKGS CPLILTQELG EIFITDFEMI VVH
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by inducing IL-6 secretion in murine NIH/3T3 cells is less than 25 ng/ml, corresponding to a specific activity of $>4.0 \times 10^4$ IU/mg.
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.