

Growth Factor Data Sheet

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Interleukin-36A (IL36A) is a pro-inflammatory cytokine, which 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 the 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 160 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	1310-36A
Product Name	IL36A (IL-36 alpha), Murine (160 a.a.) Recombinant Murine Interleukin-36α IL36A, IL36α Interleukin 36α Interleukin 1 Family, Member 6 (IL1F6)
Source	<i>Escherichia coli</i>
MW	~18.0 kDa (160 amino acids)
Sequence	MNKEKELRAA SPSLRHVQDL SSRVWILQNN ILTAVPRKEQ TVPVTITLLP CQYLDLTLETN RGDPTYMGVQ RPMSCLFCTK DGEQPVQLQG EGNIMEMYNK KEPVKASLFY HKKSGTTSTF ESAAFPGWFI AVCSKGSCPL ILTQELGEIF ITDFEMIVVH
Accession Number	Q9JLA2
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The specific activity determined by its ability in a functional ELISA. Immobilized rMuIL-36α at 1 µg/mL can bind recombinant murine IL-1 Rrp2 with a range of 0.15-5 µg/mL.
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.