

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

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 153 amino acid residues, which make up a single nonglycosylated polypeptide that shares 57-68% amino acid sequence identity with mouse, rabbit, equine and bovine IL36A, and 27-57% amino acid sequence identity with other novel IL1 family members.

Catalog Number	1110-36B
Product Name	IL36A (IL-36 alpha), Human (153 a.a.) Recombinant Human 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	KIDTPQQGSI QDINHRVWVL QDQTLIAVPR KDRMSPVTIA LISCRHVETL EKDRGNPIYL GLNGLNLCLM CAKVGDQPTL QLKEKDIMDL YNQPEPVKSF LFYHSQSGRN STFESVAFPG WFIAVSSEGG CPLILTQELG KANTTDFGLT MLF
Accession Number	Q9UHA7
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by inducing IL-8 secretion in human preadipocytes is less than 10 ng/ml, corresponding to a specific activity of >1.0 × 10 ⁵ 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.