

Growth Factor Data Sheet

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Interleukin-36G (IL36G) 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. IL36G is secreted when transfected into 293-T cells and could constitute part of an independent signaling system analogous to that of IL1A and IL1B receptor agonist and interleukin-1 receptor type I (IL1R1). Furthermore, IL36G also can function as an agonist of NFκB activation through the orphan IL1-receptor-related protein 2. Human IL36G (152 a.a.) shares 58%, 59%, 68% and 69% amino acid sequence identity with mouse, rat, bovine and equine IL36G, respectively, and 23-57% amino acid sequence identity with other family members.

Catalog Number	1110-36F
Product Name	IL36G (IL-36 gamma), Human (152 a.a.) Recombinant Human Interleukin-36γ IL36G, IL36γ Interleukin 1 Homolog 1 (IL1H1) Interleukin 1-Related Protein 2 (IL1RP2) Interleukin 1 Family, Member 9 (IL1F9)
Source	<i>Escherichia coli</i>
MW	~17.0 kDa (152 amino acids)
Sequence	SMCKPITGTI NDLNQVWTL QGQNLVAVPR SDSVTPVTVA VITCKYPEAL EQGRGDPIYL GIQNPEMCLY CEKVGEQPTL QLKEQKIMDL YGQPEPVKPF LFYRAKTGRT STLESVAFPD WFIASSKRDQ PIILTSELGK SYNTAFELNI ND
Accession Number	Q9NZH8
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by its ability to induce IL-8 secretion by human preadipocytes is less than 10 ng/ml, corresponding to a specific activity of >1 × 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.