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. IL36B 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. Recombinant human IL36G is synthesized as a protein that contains no signal sequence, no prosegment and no potential N-linked glycosylation site.There is a 53% amino acid homology between human and mouse IL36G. IL36G also has a 25-55% amino acid homology with IL36G and IL1RN, IL1B, IL36RN, IL36A, IL37, IL36B and IL1F10.

Catalog Number **Product Name**	**1110-36E** **IL36G (IL-36 gamma), Human (169 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	*Escherichia coli*
MW	18.7 kDa (169 amino acids)
Sequence	MRGTPGDADG GGRAVYQSMC KPITGTINDL NQQVWTLQGQ NLVAVPRSDS VTPVTVAVIT CKYPEALEQG RGDPIYLGIQ NPEMCLYCEK VGEQPTLQLK EQKIMDLYGQ PEPVKPFLFY RAKTGRTSTL ESVAFPDWFI ASSKRDQPII LTSELGKSYN TAFELNIND
Accession Number	Q9NZH8
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The specific activity is determined by its binding ability in a functional ELISA. Immobilized rHuIL-36γ at 1 µg/mL can bind recombinant human IL-1 Rrp2 Fc Chimera 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.