

Recombinant Human IL36G protein

Cat. No. IL36G-511H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL36G protein (Interleukin-36 gamma, 152a.a.) was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	152
Description	Interleukin-36 (IL-36) is a pro-inflammatory cytokine which plays an important role in the pathophysiology of several diseases. IL-36 α , IL-36 β , and IL-36 γ (formerly IL-1F6, IL-1F8, and IL-1F9) are IL-1 family members that signal through the IL-1 receptor family members IL-1Rrp2 (IL-1RL2) and IL-1RAcP. IL-36 γ is secreted when transfected into 293-T cells and it could constitute part of an independent signaling system analogous to interleukin-1 alpha (IL-1A), beta (IL-1B) receptor agonist and interleukin-1 receptor type I (IL-1R1). Furthermore, IL-36 γ also can function as an agonist of NF-kappa B activation through the orphan IL-1-receptor-related protein 2. Human IL-36 γ (152a.a) shares 58 %, 59 %, 68 % and 69 % a.a. sequence identity with mouse, rat, bovine and equine IL-36 γ , respectively, and 23 - 57% a.a. sequence identity with other family members.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by its

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	ability to induce IL-8 secretion by human preadipocytes is less than 10 ng/ml, corresponding to a specific activity of $> 1 \times 10^5$ IU/mg.
Molecular Mass	Approximately 17.0 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
AA Sequence	SMCKPITGTINDLNQQVWTLQGQNLVAVPRSDSVTPVTVAVITCKYPEALEQGRGD PIYLGIQNPEMCLYCEKVGEQPTLQLKEQKIMDLYGQPEPVKPFLFYRAKTGRTSTL ESVAFPDWFIASSKRDQPIILTSELGKSYNTAFELNIND
Endotoxin	Less than 1 EU/μg of rHuIL-36y, 152a.a. as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL36G
Official Symbol	IL36G

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Synonyms

IL36G; interleukin 36, gamma; IL1F9, interleukin 1 family, member 9; interleukin-36 gamma; IL 1F9; IL 1H1; IL 1RP2; IL1E; IL1H1; interleukin 1 related protein 2; interleukin 1 epsilon; interleukin 1 homolog 1; IL-1 epsilon; IL-1-epsilon; IL-1(EPSILON); interleukin-1 epsilon; IL-1 related protein 2; IL-1-related protein 2; interleukin-1 homolog 1; interleukin-1 family member 9; interleukin 1 family, member 9; interleukin 1-related protein 2; IL1F9; IL-1F9; IL-1H1; IL1RP2; IL-1RP2;

Gene ID

56300

mRNA Refseq

NM_019618

Protein Refseq

NP_062564

MIM

605542

UniProt ID

Q9NZH8

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