

Recombinant Human IL36G protein

Cat. No. IL36G-510H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL36G protein (Interleukin-36 gamma, 169a.a.) was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	169
Description	Interleukin-36 (IL-36) is a pro-inflammatory cytokine which plays an important role in the pathophysiology of several diseases. IL-36α, IL-36β, and IL-36γ (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-36γ 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-36γ also can function as an agonist of NF-kappa B activation through the orphan IL-1-receptor-related protein 2. Recombinant human IL-36γ is synthesized as a 19 kDa, 169 amino acid (a.a.) protein that contains no signal sequence, no prosegment and no potential N-linked glycosylation site. Human to mouse, IL-36γ shares 53 % a.a. identity. Within the family, IL-36γ shares about 25 % ~ 55 % a.a. sequence identity with IL-1RA, IL-1β, IL-36RA, IL-36α, IL-37, IL-36β and IL-1F10.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.

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Bio-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 g/mL can bind recombinant human IL-1 Rrp2 Fc Chimera with a range of 0.15-5 g/mL.
Molecular Mass	Approximately 18.7 kDa, a single non-glycosylated polypeptide chain containing 169 amino acids.
AA Sequence	MRGTPGDADGGGRAVYQSMCKPITGTINDLNQQVWTLQGQNLVAVPRSDSVTPVT VAVITCKYPEALEQGRGDPYILGIQNPEMCLYCEKVGEQPTLQLKEQKIMDLYGQPE PVKPFIFYRAKTGRTSTLESVAFPDWFIASSKRDQPIILTSELGKSYNTAFELNIND
Endotoxin	Less than 1 EU/μg of rHuIL-36γ, 169a.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.

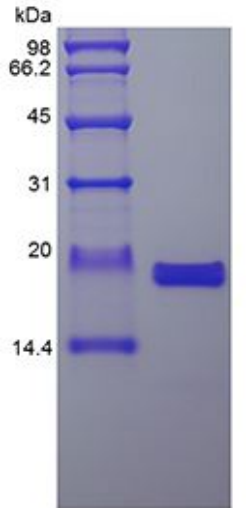
GENE INFORMATION

Gene Name IL36G

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Official Symbol	IL36G
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
SDS-PAGE of IL36G-510H	

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