

Recombinant Mouse Il1f9 protein

Cat. No. Il1f9-648M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il1f9 protein was expressed in Escherichia coli.
Species	Mouse
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-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 murine IL-36γ is synthesized as a 17.3 kDa, 152 amino acid (a.a.) protein that contains no signal sequence, no prosegment and no potential N-linked glycosylation site. Murine to human, 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 solution in 1 M MOPS, 10 mM NaAC, pH7.6, with 2 mM EDTA, 5 % Trehalose, 0.02 % Tween-20.

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Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by inducing IL-6 secretion in murine NIH/3T3 cells is less than 10 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^5$ IU/mg.
Molecular Mass	Approximately 17.3 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
AA Sequence	GRETPDFGEVFDLDQQVWIFRNQALVTPRSHRVTPVSVTILPCKYPESLEQDKGIAI YLGIQNPDKCLFCKEVNGHPTLLLKEEKILDLYHHPEPMKPFLFYHTRTGGTSTFESV AFPGHYIASSKTGNPIFLTSSKKGEYYNINFNLDIKS
Endotoxin	Less than 0.1 EU/μg of rMuIL-36γ, 152a.a. as determined by LAL method.
Purity	>97% 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	IL1f9
Official Symbol	IL1f9

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Synonyms	IL1F9; interleukin 1 family, member 9; interleukin-36 gamma; IL-1F9; interleukin-1 family member 9; IL36g;
Gene ID	215257
mRNA Refseq	NM_153511
Protein Refseq	NP_705731
UniProt ID	Q8R460

SDS-PAGE of IL1f9-648M

