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Recombinant Human IL36 gamma/IL-1F9 Protein

Catalog No.: RP00035 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	56300	Q9NZH8

Tags
No tag

Synonyms
IL36G;IL-1F9;IL-1H1;IL-1RP2;IL1E;IL1F9;IL1H1;IL1RP2

Product Information

Source	Purification
E. coli	> 92% by SDS-PAGE.

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

The protein is a member of the interleukin 1 cytokine family. The activity of this cytokine is mediated by interleukin 1 receptor-like 2 (IL1RL2/IL1R-rp2), and is specifically inhibited by interleukin 1 family, member 5 (IL1F5/IL-1 delta). Interferon-gamma, tumor necrosis factor-alpha and interleukin 1, beta (IL1B) are reported to stimulate the expression of this cytokine in keratinocytes. The expression of this cytokine in keratinocytes can also be induced by a contact hypersensitivity reaction or herpes simplex virus infection.

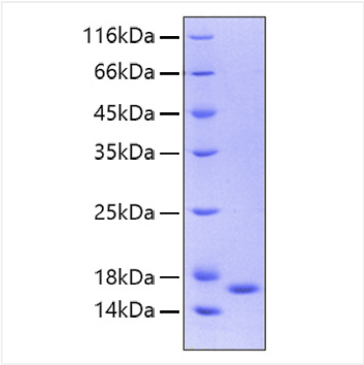
Basic Information

Description
Recombinant Human IL36 gamma/IL-1F9 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser18-Asp169) of human Interleukin-36 gamma (Accession #NP_062564.1).

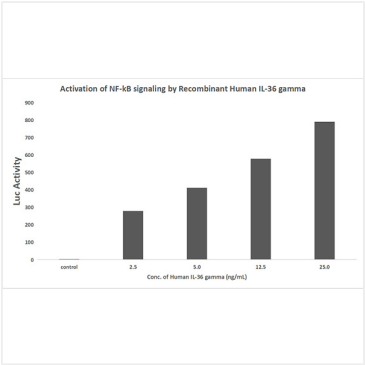
Bio-Activity
1.The NF-kB (Luc) HEK293 Reporter Cell was stimulated with serial dilutions of human IL-36 gamma protein. After 7 hours, 2.5 ng/mL of human IL-36 gamma can effectively activate the NF-κB signaling.|2.Measured by its ability to induce IL-8 secretion in A431 human epithelial carcinoma cells. The ED_{50} for for this effect is 101.34-405.36 ng/mL.

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.
Avoid repeated freeze/thaw cycles.

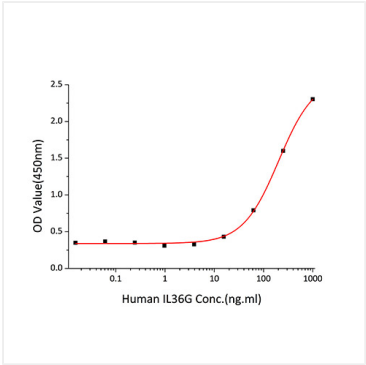
Validation Data



Recombinant Human IL36 gamma/IL-1F9 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 17 kDa.



The NF-kB (Luc) HEK293 Reporter Cell was stimulated with serial dilutions of human IL-36 gamma protein. After 7 hours, 2.5 ng/mL of human IL-36 gamma can effectively activate the NF-κB signaling.



Recombinant Human IL-36G induce IL-8 secretion in A431 human epithelial carcinoma cells. The ED_{50} for for this effect is 101.34-405.36 ng/mL.