

Recombinant Human Interleukin-36 gamma, 152a.a.

#R00071

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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 α (IL-1A), β (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.

AA Sequence

SMCKPITGTINDLNQQVWTLQGQNLVAVPRSDSVTP
VTVAVITCKYPEALEQGRGDPIYLGIQNPEMCLYCEKV
GEQPTLQLKEQKIMDLYGQPEPVKPFIFYRAKTGRTS
TLESVAFPDWFIASSKRDQPILTSELGKSYNTAFELNI
ND

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 $\leq$ -20°C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	IL-1RP2, IL-1 epsilon, IL-1F9, IL-1H1
Accession	Q9NZH8
GeneID	56300
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 17.0 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by its 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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Endotoxin	Less than 1 EU/ μ g of rHuIL-36 γ , 152a.a. as determined by LAL method.