

## Prime Gene Recombinant Murine Interleukin-36 alpha, 153a.a. (rMuIL-36α, 153a.a.)

## PrimeGene Technical Data Sheet

Catalog Number: 121-36B

Source: Escherichia coli.

**Molecular Weight:** Approximately 17.1kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.

**Quantity:**  $2\mu g/10\mu g/1000\mu g$ 

**AA Sequence:** RAASPSLRHV ODLSSRVWIL ONNILTAVPR KEOTVPVTIT LLPCOYLDTL ETNRGDPTYM

GVQRPMSCLF CTKDGEQPVL QLGEGNIMEM YNKKEPVKAS LFYHKKSGTT STFESAAFPG

WFIAVCSKGS CPLILTQELG EIFITDFEMI VVH

**Purity:** > 95 % by SDS-PAGE and HPLC analyses.

Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by inducing IL-6 **Biological Activity:** 

secretion in murine NIH/3T3 cells is less than 25 ng/ml, corresponding to a specific activity of > 4.0

 $\times 10^4$  IU/mg.

Sterile Filtered White lyophilized (freeze-dried) powder. Physical Appearance:

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, 1 mM DTT, 3 % trehalose.

**Endotoxin:** Less than 1 EU/ $\mu$ g of rMuIL-36 $\alpha$ , 153a.a. as determined by LAL method.

**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.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

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.

Usage: This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further

evaluation purposes. NOT FOR HUMAN USE.

## Murine Interleukin-36 alpha

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-36α is mainly found in skin and lymphoid tissues, but also in fetal brain, trachea, stomach and intestine. It is expressed by monocytes, B and T cells. Notably, IL-36 alpha is the only novel IL-1 family member expressed on T-cells. Recombinant murine interleukin-36 alpha contains 153 amino acids residues which is a single nonglycosylated polypeptide. Specifically, mouse IL-36 $\alpha$  shares 83 % a.a. sequence identity with rat IL-36 $\alpha$ , 54 – 60 % with human, rabbit, equine and bovine IL-36α.

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