

## BACKGROUND:

Interleukin 36 gamma (IL-36γ) is a member of the interleukin 1 (IL-1) cytokine family and protects against pathogens in the skin, lung, and stomach epithelial barriers. IL-36G binds the interleukin-1 receptor accessory protein (IL-1RAcP) and the orphan IL-1R-related protein 2 (IL-1Rrp2) receptors to activate NF-κB and MAP kinase signaling pathways, resulting in the induced production of inflammatory cytokines and chemokines.

Recombinant mouse Interleukin 36 gamma is a non-glycosylated protein monomer, containing 153 amino acids and having a molecular mass of 17.5 kDa.

**Cat. No.:**  
RP2081AF

**Alternate Names:**  
IL-1F9, IL-1 epsilon

### AA Sequence:

|            |            |            |
|------------|------------|------------|
| MGRETPDFGE | VFDLDQQVWI | FRNQALVTVP |
| RSHRVTPVSV | TILPCKYPES | LEQDKGIAIY |
| LGIQNPDKCL | FCKEVNGHPT | LLLKEEKILD |
| LYHHPEPMKP | FLFYHTRTGG | TSTFESVAFP |
| GHYIASSKTG | NPIFLTSSKG | EYYNINFNLD |
| IKS        |            |            |

## TECHNICAL INFO

**Source:**  
*E. coli*

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

**Formulation:**  
0.1% Trifluoroacetic Acid (TFA)

**Stability:**  
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

### Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

**Endotoxin Level:**  
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

**Biological Activity:**  
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product at 0.1 mg/ml in sterile 10 mM HCl, which can be further diluted into other aqueous solutions.

**Animal Component-Free**  
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

