

## ChemWhotecombinant Human Interleukin-36 gamma, 169a.a. (rHuIL-36y, 169a.a.)

## **ChemWhat Technical Data Sheet (TDS)**

Catalog Number:

101-36E

Source:

Escherichia coli.

Molecular Weight:

Approximately 18.7 kDa, a single non-glycosylated polypeptide chain containing 169 amino acids.

Quantity:

 $2\mu g/10\mu g/1000\mu g$ 

AA Sequence:

MRGTPGDADG GGRAVYOSMC KPITGTINDL NOOVWTLOGO NLVAVPRSDS

VTPVTVAVIT CKYPEALEQG RGDPIYLGIQ NPEMCLYCEK VGEQPTLQLK EQKIMDLYGQ

PEPVKPFLFY RAKTGRTSTL ESVAFPDWFI ASSKRDOPII LTSELGKSYN TAFELNIND

Purity:

> 95 % by SDS-PAGE and HPLC analyses.

**Biological Activity:** 

Fully biologically active when compared to standard. The specific activity is determined by its binding ability in a functional ELISA. Immobilized rHuIL-36y at 1 µg/mL can bind recombinant

human IL-1 Rrp2 Fc Chimera with a range of 0.15-5 µg/mL.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Endotoxin:

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. Less than 1 EU/µg of rHuIL-36y, 169a.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:

ChemWhat Limited in UK offers this branded product for research, development or further

evaluation purposes. NOT FOR HUMAN USE.

## Human Interleukin-36 gamma

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-36y also can function as an agonist of NF-kappa B activation through the orphan IL-1receptor-related protein 2. Recombinant human IL-36γ is synthesized as a 19 kDa, 169 amino acid (a.a.) protein that contains no signal sequence, no prosegment and no potential N-linked glycosylation site. Human to mouse, 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.

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