ChemWhotRecombinant Human Interleukin-36 alpha, 153a.a. (rHuIL-36a, 153a.a.) A brand under Watson

ChemWhat Technical Data Sheet (TDS)

Catalog Number:

101-36B

Source:

Escherichia coli.

Molecular Weight:

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

Quantity:

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

AA Sequence:

KIDTPQQGSI QDINHRVWVL QDQTLIAVPR KDRMSPVTIA LISCRHVETL EKDRGNPIYL

GLNGLNLCLM CAKVGDQPTL QLKEKDIMDL YNQPEPVKSF LFYHSQSGRN STFESVAFPG

WFIAVSSEGG CPLILTQELG KANTTDFGLT MLF

Purity:

> 95 % by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The ED₅₀ as determined by inducing IL-8 secretion in human preadipocytes is less than 10 ng/ml, corresponding to a specific activity of $> 1.0 \times$

105 IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 300 mM NaCl, pH 8.0,

0.1 % Tween 80.

Endotoxin:

Less than 1 EU/μg of rHuIL-36α, 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:

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

evaluation purposes. NOT FOR HUMAN USE.

Human 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. Studies showed IL-36α is mainly found in skin and lymphoid tissues, but also in fetal brain, trachea, stomach and intestine. Notably, IL-36 alpha is the only novel IL-1 family member expressed on Tcells. Recombinant human interleukin-36 alpha (153 a.a.) contains 153 amino acids residues which is a single non-glycosylated polypeptide and it shares 57 - 68 % a.a. sequence identity with mouse, rabbit, equine and bovine IL-36 α and 27 - 57 % a.a. sequence identity with other novel IL-1 family members.

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