

ChemWhat Technical Data Sheet (TDS)

Catalog Number:

101-36D

Source:

Escherichia coli.

Molecular Weight:

Approximately 17.2 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.

Quantity:

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

AA Sequence:

REAAPKSYAI RDSRQMVWVL SGNSLIAAPL SRSIKPVTLH LIACRDTEFS DKEKGNMVYL

GIKGKDLCLF CAEIQGKPTL QLKEKNIMDL YVEKKAQKPF LFFHNKEGST SVFQSVSYPG

WFIATSTTSG QPIFLTKERG ITNNTNFYLD SVE

Purity:

> 97 % 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 $> 1.0 \times 10^{-5}$

105 IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2 μ m filtered concentrated solution in 2 × PBS, pH 7.4. Less than 1 EU/ μ g of rHuIL-36 β , 153a.a. as determined by LAL method.

Endotoxin: 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 less than 0.2~mg/ml. Stock solutions should be apportioned into working aliquots and

stored at ≤ -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 beta

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 beta is reported to be expressed at higher levels in psoriatic plaques than in symptomless psoriatic skin or healthy control skin and it can stimulate production of interleukin-6 and interleukin-8 in synovial fibrobasts, articular chondrocytes and mature adipocytes. It has two isoforms. IL-36 β isoform 2 contains one potential N-linked glycosylation site in its C-terminus, while IL-36 β isoform 1 lacks potential N-linked glycosylation sites and four of the conserved β -strands. Human IL-36 β isoform 2 shares 62 %, 67 %, 63 % and 59 % a.a. identity with the most similar isoform of mouse, canine, bovine and equine IL-36 β , respectively.

Rev. 08/20/2018 V.3

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