

ChemWhat Recombinant Murine Interleukin-36 beta, 183a.a.
A brand under Watson (rMuIL-36 β , 183a.a.)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	121-36C
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 20.9 kDa, a single non-glycosylated polypeptide chain containing 183 amino acids.
Quantity:	2 μ g/10 μ g/1000 μ g
AA Sequence:	MMAFPPQSCV HVLPPKSIQM WEPNHNTMHG SSQSPRNYRV HDSQQMVWVL TGNTLTAVPA SNNVKPVILS LIACRDTEFQ DVKKGNLVFL GIKNRNLCFC CVEMEGKPTL QLKEVDIMNL YKERKAQKAF LFYHGIEGST SVFQSVLYPG WFIATSSIER QTILTHQRG KLVNTNFYIE SEK
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The specific activity determined by its ability in a functional ELISA. Immobilized rMuIL-36 β at 1 μ g/mL can bind recombinant murine IL-1 Rrp2 with a range of 0.15-5 μ g/mL.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM Tris, 300 mM NaCl, pH 8.0, 5 % trehalose.
Endotoxin:	Less than 1 EU/ μ g of rMuIL-36 β , 183a.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 $^{\circ}$ 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. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 $^{\circ}$C as supplied.● 1 month, 2 to 8 $^{\circ}$C under sterile conditions after reconstitution.● 3 months, -20 to -70 $^{\circ}$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.

Murine 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 fibroblasts, articular chondrocytes and mature adipocytes. It beta 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. Within the IL-1 family, IL-36 β /IL-1F8 shares 32 %, 37 %, 46 %, 34 %, 45 % and 28 % a.a. sequence identity with IL-1 β , IL-36Ra/IL-1F5, IL-36 α /IL-1F6, IL-37/IL-1F7, IL-36 γ /IL-1F9 and IL-1F10, respectively.

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Email: contact@chemwhat.com