

# Growth Factor Data Sheet

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Interleukin-36B (IL36B) is a pro-inflammatory cytokine which plays an important role in the pathophysiology of several diseases. IL36A, IL36B, and IL36G (formerly IL1F6, IL1F8, and IL1F9) are all IL1 family members that signal through the IL1 receptor family members IL1Rrp2 (IL1RL2) and IL1RAcP. IL36B is reported to be expressed at higher levels in psoriatic plaques than in symptomless psoriatic skin or healthy control skin. IL36B can also stimulate the production of IL6 and IL8 in synovial fibroblasts, articular chondrocytes and mature adipocytes. Within the IL1 family, IL36B/IL1F8 shares 30%, 32%, 37%, 46%, 34%, 45% and 28% amino acid sequence identity with IL1RN, IL1B, IL36RN/IL1F5, IL36A/IL1F6, IL37/IL1F7, IL36G/IL1F9 and IL1F10, respectively.

<b>Catalog Number</b>	<b>1310-36C</b>
<b>Product Name</b>	<b>IL36B (IL-36 beta), Murine (183 a.a.)</b> Recombinant Murine Interleukin-36β IL36B, IL36β Interleukin 36β Interleukin 1 Family, Member 8 (IL1F8)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~20.9 kDa (183 amino acids)
<b>Sequence</b>	MMAFPPQSCV HVLPPKSIQM WEPNHNTMHG SSQSPRNYRV HDSQQMVVWL TGNTLTAVPA SNNVKPVILS LIACRDTEFQ DVKKGNLVFL GIKNRNLCFC CVEMEGKPTL QLKEVDIMNL YKERKAQKAF LFYHGIEGST SVFQSVLYPG WFIATSSIER QTILTHQRG KLVNTNFYIE SEK
<b>Accession Number</b>	<a href="#">Q9D6Z6</a>
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The specific activity determined by its ability in a functional ELISA. Immobilized rMuIL-36β at 1 μg/mL can bind recombinant murine IL-1 Rrp2 with a range of 0.15-5 μg/mL.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.