

# Growth Factor Data Sheet

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Interleukin-1 beta (IL1B) is a nonsecreted pro-inflammatory cytokine produced mainly by activated macrophages, as well as neutrophils, epithelial cells and endothelial cells. It possesses metabolic, physiological and hematopoietic activities, and plays one of the central roles in the regulation of immune responses. Both IL1A and IL1B bind to the same receptor and have similar biological properties. Recombinant porcine IL1B shares 63-70% amino acid sequence identity with canine, cotton rat, equine, feline, human, mouse, rat and rhesus IL1B.

<b>Catalog Number</b>	<b>1810-01B</b>
<b>Product Name</b>	<b>IL1B (IL-1 beta), Porcine</b> Recombinant Porcine Interleukin-1 $\beta$ IL1B Interleukin 1B
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~17.6 kDa (153 amino acids)
<b>Sequence</b>	ANVQSMECKL QDKDHKSLVL AGPHMLKALH LLTGDCLKREV VFCMSFVQGD DSNNKIPVTL GIKGKNLYLS CVMKDNTPTL QLEDIDPKRY PKRDMEKRFV FYKTEIKNRV EFESALYPNW YISTSQAEQK PVFLGNSKGR QDITDFTMEV LSP
<b>Accession Number</b>	<a href="#">P26889</a>
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> as determined by a cell proliferation assay using murine D10S cells is less than 5.0 ng/ml, corresponding to a specific activity of >2.0 $\times 10^5$ IU/mg.
<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.