

# Growth Factor Data Sheet

GoldBio growth factors are manufactured for RESEARCH USE ONLY and cannot be sold for human consumption!

Interleukin-3 beta (IL3B) and IL3A are two variants of IL3. IL3A and IL3B are identical aside from the fact that IL3A has three extra amino acids inserted at position 56. IL3 is a hematopoietic growth factor that promotes the survival, differentiation and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. Produced by T-cells, mast cells and eosinophils, IL3 enhances thrombopoieses, phagocytosis and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL3 may have additional immunoregulatory roles. Many of the IL3 activities depend upon co-stimulation with other cytokines. IL3 is a species-specific, variably glycosylated cytokine.

<b>Catalog Number</b>	<b>1510-03B</b>
<b>Product Name</b>	<b>IL3 B, Rat</b> Recombinant Rat Interleukin-3B IL3B Interleukin 3β Multi Colony-Stimulating Factor (MULTI-CSF)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~16.3 kDa (144 amino acids)
<b>Sequence</b>	MISDRGSDAH HLLRTLDCRT IALEILVKLP YPQVSGLNNS DDKANLRNST LRRVNLDEFL KSQEEFDSQD TTDIKSKLQK LKCCIPAAAS DSVLPGVYNK DLDDFKKKLR FYVIHLKDLQ PVSVSRPPQP TSSSDNFRPM TVEC
<b>Accession Number</b>	<a href="#">P97688</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 MC-9 cells is less than 10 ng/ml, corresponding to a specific activity of >1.0 × 10 <sup>5</sup> 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.