

## IL3

### Recombinant Human IL-3, GMP Grade

<b>Catalog No.</b>	CRH311A-GMP CRH311B-GMP CRH311C-GMP	<b>Quantity:</b>	50 µg 100 µg 1 mg
<b>Alternate Names:</b>	Interleukin-3, IL-3, Hematopoietic growth factor, Mast cell growth factor, MCGF, Multipotential colony-stimulating factor, P-cell-stimulating factor		
<b>Description:</b>	Interleukin 3, produced by activated T cells and mast cells, induces the differentiation of hematopoietic stem cells into myeloid precursor cells, such as erythrocyte, megakaryocyte, granulocyte, monocyte, and dendritic cells. IL-3 also functions in the nervous system and during B-1 cell regulation of chronic inflammatory diseases. This product is produced from <i>E. coli</i> and is manufactured in a facility that does not use or process beta-lactam containing materials. No animal- or human-derived materials were used during manufacturing or as ingredients. This product is manufactured, tested, and released in an ISO 9001:2015 certified facility and follows cGMP practices. USP chapter <1043> for ancillary materials considered in the manufacture of this product.		
<b>UniProt ID:</b>	P08700		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	15.2 kDa (134 aa) monomer		
<b>Formulation:</b>	Lyophilized (1mg/ml) sterile-filtered 10 mM sodium phosphate, 150 mM NaCl, pH 7.5.		
<b>Purity:</b>	≥97% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	<0.05 EU/µg using USP <85>/ EP 2.6.14		
<b>Biological Activity:</b>	ED <sub>50</sub> ≤ 2 ng/ml, determined by a dose-dependent TF-1 cell proliferation assay.		
<b>Specific Activity:</b>	4.2 x 10 <sup>3</sup> IU/µg, calibrated against recombinant human interleukin 3 WHO International Standard (NIBSC code 91/510).		
<b>Amino Acid Sequence:</b>	MAPMTQTTPL KTSWVNCNSM IDEIITHLKQ PPLPLLDFFNN LNGEDQDILM ENNLRRPNLE AFNRAVKSLQ NASAIESILK NLLPCLPLAT AAPTRHPIHI KGDWNEFRR KLTFYLKTLT NAQAQQTLS LAIF		
<b>Reconstitution:</b>	Allow the vial and sterile water/Water for Injection to equilibrate to room temperature. Draw up desired volume for reconstitution with sterile syringe. Aseptically puncture through rubber stopper with sterile needle, inject the buffer to achieve the desired concentration (0.1-0.5 mg/mL). Swirl the vial gently, <b>do not vortex</b> . Allow protein to rehydrate for 10-15 minutes at room temperature with occasional gentle mixing.		
<b>Storage &amp; Stability:</b>	Lyophilized vial is shipped at ambient temperature. Immediately upon receipt, store unopened vial at -20°C (manual defrost freezer) or -80°C for up to 36 months. Upon reconstitution, prepare working aliquots and store at -20°C (manual defrost freezer) or -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. For short term storage reconstituted material is stable for 4-6 weeks when stored at 2-8°C. <b>Avoid repeated freeze-thaw cycles.</b>		



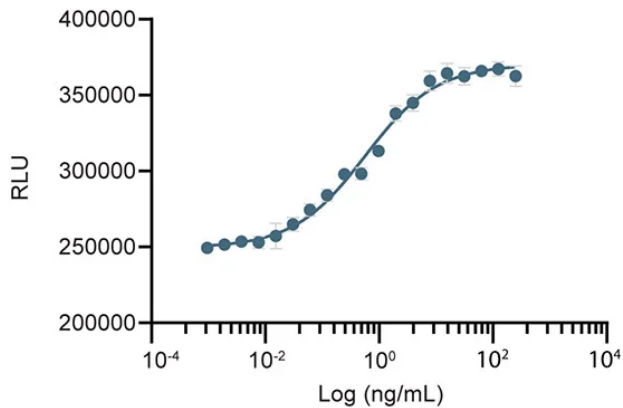
**Applications:**

For *ex vivo* use only. Not for injection or diagnostic procedures. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

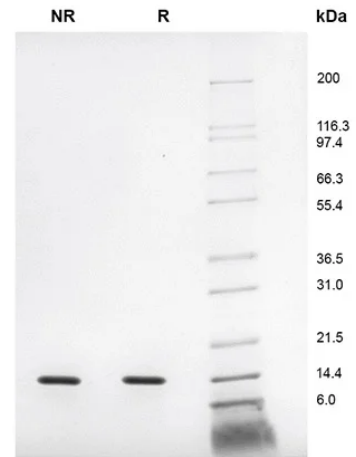
**Country of Origin:**

USA

GMP Grade rhIL-3 Proliferation Assay  
using TF-1 erythroleukemic cells.



SDS-PAGE GMP Grade rhIL-3  
Single Prominent band at 15.2 kDa



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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