

IL2

Recombinant Human IL-2 (C126S), GMP Grade

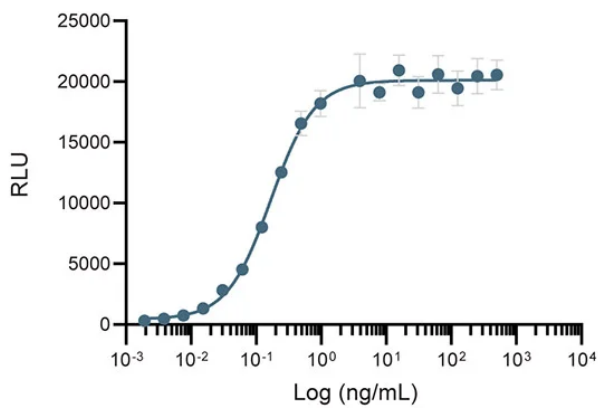
Catalog No.	CRI101A-GMP CRI101B-GMP CRI101C-GMP	Quantity:	50 µg 100 µg 1.0 mg
Alternate Names:	Interleukin-2, IL-2, T-cell Growth Factor, TCGF, Aldesleukin		
Description:	<p>Interleukin-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. It is expressed by CD4+ and CD8+ T cells, γδ T cells, B cells, dendritic cells, and eosinophils. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions that are essential for the immune response. GMP Grade amino acid sequence including C126S is identical to aldesleukin.</p> <p>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.</p>		
UniProt ID:	P60568		
Source:	<i>E. coli</i>		
Molecular Weight:	15.5 kDa predicted (134 aa) monomer ~14 kDa on SDS-PAGE		
Formulation:	Lyophilized (1 mg/ml) sterile-filtered solution containing 0.1% Trifluoroacetic Acid (TFA)		
Purity:	≥ 97% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	<0.01 EU/µg using USP <85>/ EP 2.6.14		
Biological Activity:	ED ₅₀ ≤ 3 ng/ml, determined by the dose-dependent proliferation of mouse CTLL-2 cells.		
Specific Activity:	~1.8 x 10 ⁴ IU/µg calibrated against the recombinant human interleukin 2 WHO International Standard (NIBSC code 86/500).		
Amino Acid Sequence:	MAPTSSSTKK TQLQLEHLLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFSQSII STLT		
Reconstitution:	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, do not vortex . Allow protein to rehydrate for 10-15 minutes at room temperature with occasional gentle mixing.		
Storage & Stability:	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. Avoid repeated freeze-thaw cycles.		



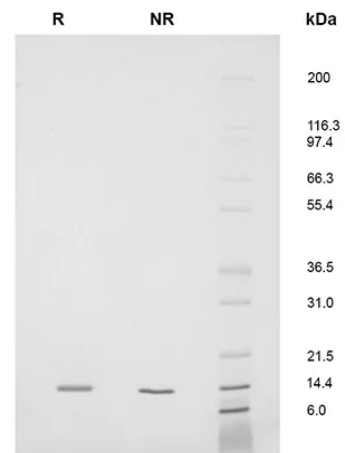
Application: For *ex vivo* use only. Not for injection or diagnostic procedures. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

Country of Origin: USA

GMP Grade rhIL-2(C126S) Proliferation Assay
using mouse CTLL-2 cell line.



SDS-PAGE GMP Grade rhIL-2(C126S)
Single Prominent band at 14 kDa



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



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