



Certificate of Analysis

GMP IL-2 Protein, Human (Tag Free)

Cat. No.:	HY-P7037G
Batch No.:	422180
Species:	Human
Source:	<i>E. coli</i>
Tag:	Tag Free
Accession:	P60568 (A21-T153)
Gene ID:	3558
Molecular Weight:	14 KDa

ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥98.0%
Endotoxin Level	<0.01 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. The specific activity of GMP Human IL-2 is $\geq 1.0 \times 10^7$ IU/mg, which is calibrated against human IL-2 WHO International Standard (NIBSC code: 86/500)	1.8×10^7 IU/mg
pH Value	4.0	
Host Cell Protein (ELISA)	<0.01 μg per mg of protein	
Host Cell DNA (qPCR)	<1 ng per mg of protein	
Mycoplasma	Negative	
Sterility	PASS	
Appearance	Lyophilized powder	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in injection water.	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.	

Caution: Product has not been fully validated for medical applications. For research use only.

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