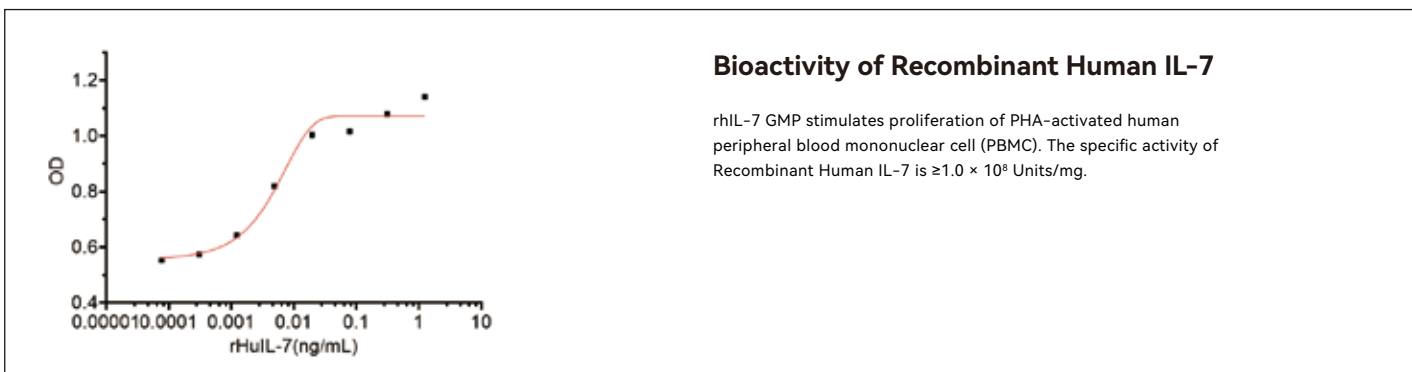
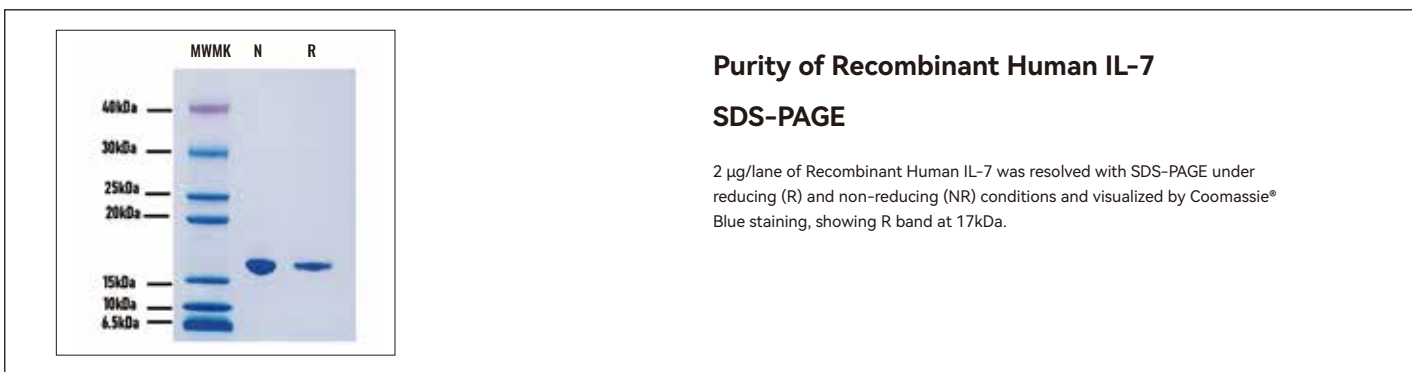
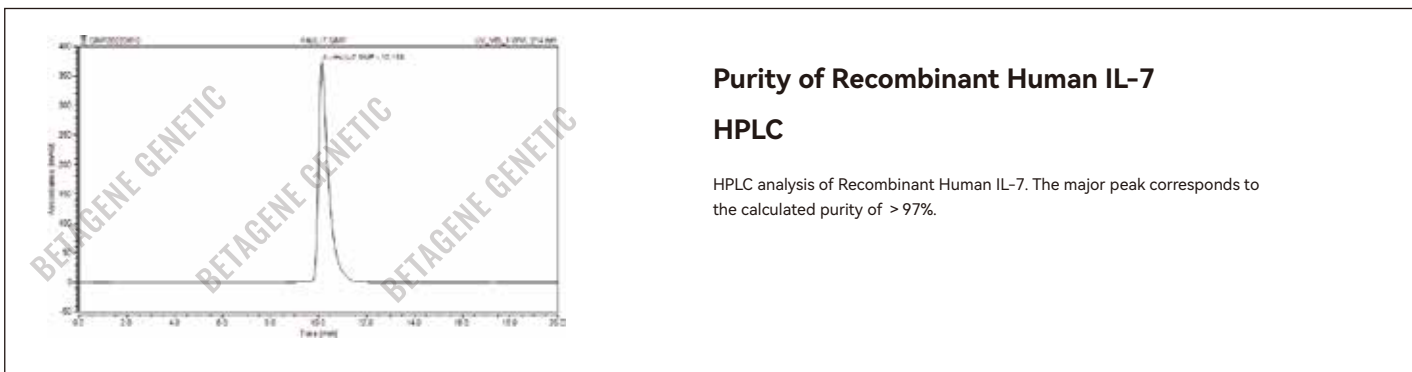


RECOMBINANT HUMAN IL-7 TAG-FREE GMP

Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Gene ID	3574
Description	IL-7 is a hematopoietic growth factor that primarily affects early B and T cells. Produced by thymic stromal cells, spleen cells and keratinocytes, IL-7 can also co-stimulate the proliferation of mature T cells in combination with other factors, such as ConA and IL-2. Human and murine IL-7 are cross-species reactive. Recombinant Human IL-7 is a 17.5 kDa protein containing 153 amino acid residues.
Catalog Number	GE06.1/GE06.2
Unit Size	50µg/100µg
Source	E. coli
Molecular Weight	Approximately 17.4 kDa, 152 amino acids
AA Sequence	DCDIEGKDGKQYESVLMVSIQQLLDSMKEIGSNCLNNEFNFFKRHICDANKEGMFLFRAARKLRQFLKMNSTGDFDLHLLKVSEGTTILLNCTGQVKGRKPAALGAEQPTKSLEENKSLKEQKLNLDLFLKRLLEIKTCWNKILMGTKHEH
Purity (HPLC)	> 97%
Purity (SDS-PAGE)	> 97%
Biological Activity	Assay1: Measured by its ability to stimulate proliferation of PHA-activated human peripheral blood mononuclear cell (PBMC). The specific activity of Recombinant Human IL-7 is $\geq 1.0 \times 10^8$ Units/mg. Assay2: The ED ₅₀ as determined by a cell proliferation assay using murine 2E8 cells is < 0.5 ng/mL, corresponding to a specific activity of $\geq 2.0 \times 10^6$ Units/mg.
Host Cell DNA Residue	< 0.02 ng/µg of protein tested by DNA Fluorescent Staining method.
Host Cell Protein Residue	< 0.5 ng/µg of protein tested by ELISA.
Formulation	Lyophilized from a 0.2µm filtered solution in PBS pH7.4.
Sterility	Negative
Endotoxin	< 0.01EU/µg as determined by LAL gel-clot method.
Mycoplasma	Negative
Reconstitution	Before use this product, please read the direction below carefully. 1. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. 2. Reconstitute in a sterile aqueous buffer to an appropriate concentration. 3. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Stability & Storage	For long term storage, the product should be stored ≤ -20 °C. Please avoid repeated freeze-thaw cycles after reconstitution. 1. At least 24 months from date of receipt, ≤ -20 °C as supplied; 2. 1 month, 2 to 8 °C under sterile conditions after reconstitution; 3. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended.



DATA



CONTENTS

Product	Cat. No.	Amount	Storage	Shelf life
Recombinant Human IL-7 (GMP-Grade)	GE06.1 GE06.2	50µg 100µg	≤-20°C	24 months

LIMITED WARRANTY

BETAGENE™ Genetic and/or its affiliate(s) warrant their products as set forth in the BETAGENE Genetic' General Terms and Conditions of Sale. If you have any questions, please contact our staff at SALES@betagene.com.

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