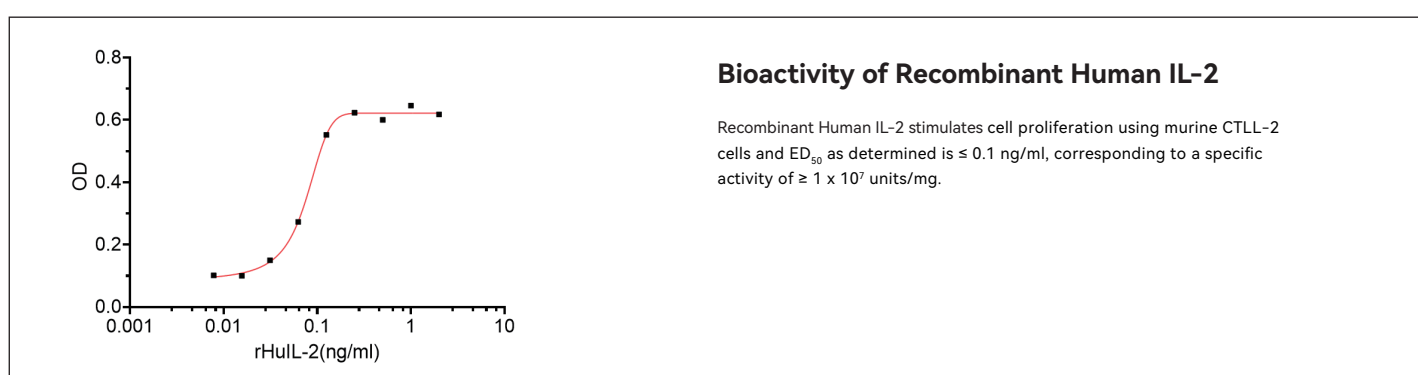
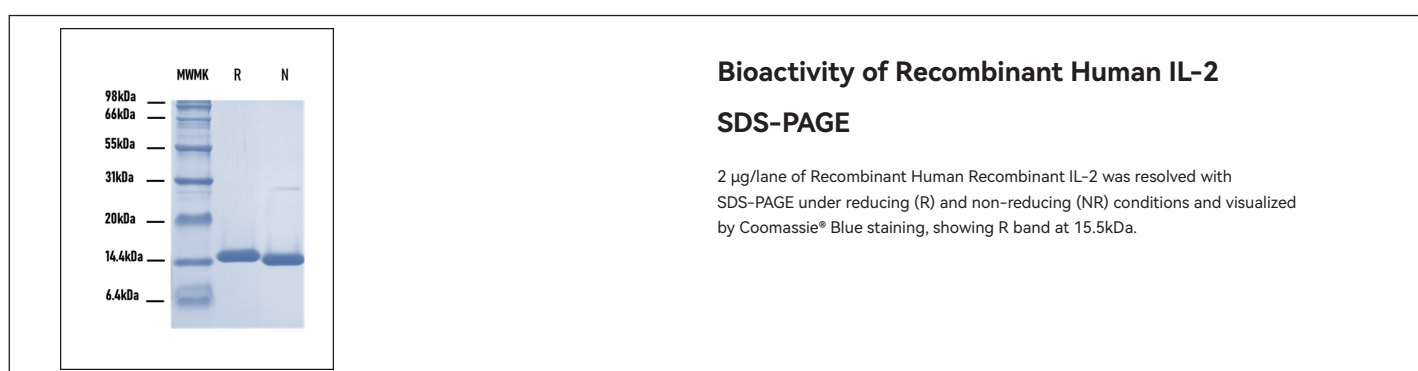
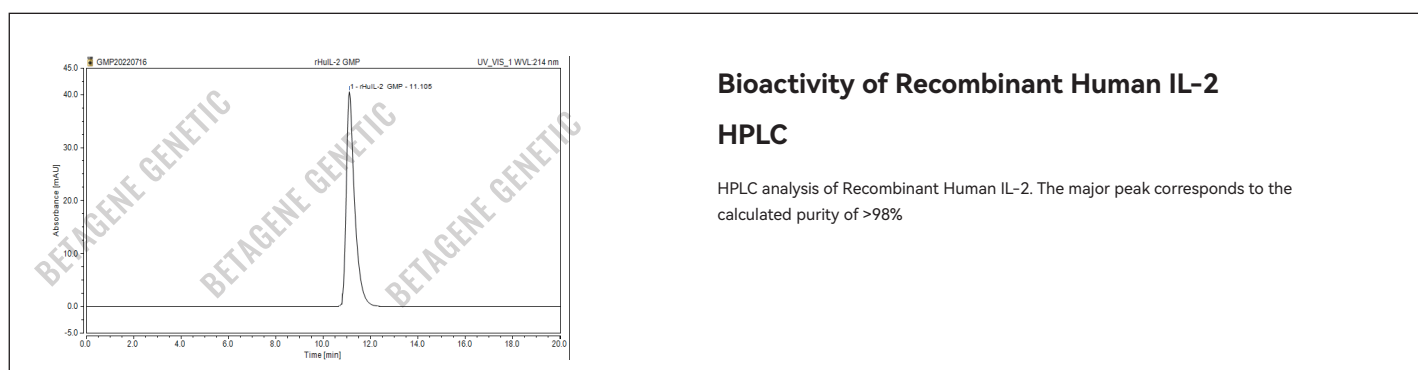




Recombinant Human IL-2 Tag-Free GMP

Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Gene ID	3558
Description	IL-2 is a powerful immunoregulatory lymphokine produced by T cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T cell proliferation and other fundamental functions that are essential for the immune response. IL-2 stimulates growth and differentiation of B cells, NK cells, lymphokine-activated killer cells, monocytes, macrophages and oligodendrocytes. Recombinant Human IL-2 is a 15.5 kDa protein, containing 134 amino acid residues including one intrachain disulfide bond.
Catalog Number	GE05.1/GE05.2
Specs	100µg/200µg
Source	E. coli
Molecular Weight	Approximately 15.5 kDa, 134 amino acids
AA Sequence	APTSSSTKKTQLQLEHLLDLQMLINGINNYKNPKLTRMLTFKPYMPKKATELKHLCLEELKPLEEVLNLAQSKNFHLRPRDLISINIVIVLELK GSETTFMCEYADETATIVEFLNRWITFCQSIISTLT
SDS-PAGE Purity	Target protein bnd(s) > 98%
HPLC Purity	> 98% by SDS-PAGE or HPLC
Biological Activity	The ED ₅₀ as determined by the dose-dependent stimulation of murine CTLL-2 cells is ≤ 0.1 ng/ml, corresponding to a specific activity of ≥ 1 × 10 ⁷ units/mg.
Host Cell DNA	<0.02 ng/µg of protein.
Host Cell Protein	<0.5 ng/µg of protein tested by ELISA.
Formulation	Lyophilized from a 0.2µm filtered solution in 20 mM PB, 3% trehalose, pH 3.5
Sterility	Negative
Endotoxin	< 0.01EU/µg as determined by LAL
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. 12 months from date of receipt, -20 to -70 °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-2 (GMP-Grade)	GE05.1 GE05.2	100µg 200µg	≤-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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