

Recombinant Human Interleukin-7 GMP (rHuIL-7 GMP)

PrimeGene Technical Data Sheet

Catalog Number:	GMP-101-07
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 17.4 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
Quantity:	5µg/100µg/1mg
AA Sequence:	DCDIEGKDGK QYESVLMVSI DQLLDSMKEI GSNCLNNEFN FFKRHICDAN KEGMFLFRAA RKLRFKLMN STGDFDLHLL KVSEGTTILL NCTGQVKGRK PAALGEAQPT KSLEENKSLK EQKKLNDLCF LKRLLEIKT CWNKILMGTK EH
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. rHuIL-7 GMP stimulates proliferation of PHA-activated human peripheral blood mononuclear cell (PBMC). The specific activity of Recombinant Human IL-7 is $\geq 1.0 \times 10^8$ IU/mg, which is calibrated against human IL-7 WHO Standard (NIBSC code: 90/530).
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 0.01 EU/µg of rHuIL-7 GMP as determined by LAL method.
Sterility:	Negative.
Mycoplasma:	Negative when tested by RD-RCA.
Host Cell Protein:	Less than 0.05 % when tested by ELISA.
Host Cell DNA:	Less than 20 ng/mg when tested by qPCR.
In vitro virus assay:	Negative.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● A minimum of 12 months when stored at ≤ -20 °C as supplied. Refer to lot specific COA for the Use by Date.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This GMP product can be for research use or further manufacturing use.
Quality statement:	The manufacture and testing of this product is in compliance with ICH Q7a guidelines.

