

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

ChemWhat Technical Data Sheet (TDS)

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 RKLRQFLKMN STGDFDLHLL KVSEGTTILL NCTGQVKGRK PAALGEAQPT KSLEENKSLK EQKKNLNDLCF LKRLLEIKT CWNKILMGTK EH
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Assay 1: Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine 2E8 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁶ IU/mg. Assay 2: Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using PHA-activated human peripheral blood lymphocytes (PBL) is 0.1-0.5 ng/mL. The specific activity of Recombinant Human IL-7 is approximately 2.0 × 10 ⁸ units/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.
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.

