

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

ChemWhat Technical Data Sheet (TDS)

Catalog Number: GMP-101-07
Source: Escherichia coli.

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

RKLROFLKMN STGDFDLHLL KVSEGTTILL NCTGQVKGRK PAALGEAQPT KSLEENKSLK

EQKKLNDLCF LKRLLQEIKT CWNKILMGTK EH

Purity: > 98 % by SDS-PAGE and HPLC analyses.

Biological Activity: Assay 1: Fully biologically active when compared to standard. The ED₅₀ as determined by a cell

proliferation assay using murine 2E8 cells is less than 0.5 ng/ml, corresponding to a specific activity

of $> 2.0 \times 10^6$ IU/mg.

Assay 2: Fully biologically active when compared to standard. The ED₅₀ 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 × 10⁸ 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.

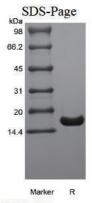
 A minimum of 12 months when stored at ≤ -20 °C as supplied. Refer to lot specific COA for the Use by Date.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

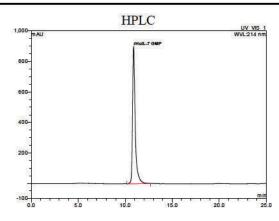
3 months, -20 to -70 °C under sterile conditions after reconstitution.

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.



CHEMWHAT LIMITED



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