

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

PrimeGene Technical Data Sheet

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: $5\mu g/100\mu g/1mg$

AA Sequence: DCDIEGKDGK QYESVLMVSI DQLLDSMKEI GSNCLNNEFN FFKRHICDAN KEGMFLFRAA

RKLRQFLKMN STGDFDLHLL KVSEGTTILL NCTGQVKGRK PAALGEAQPT KSLEENKSLK

EQKKLNDLCF LKRLLQEIKT 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 10⁸ 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 \leq -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

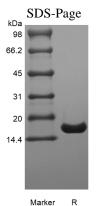
recommended below.

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.

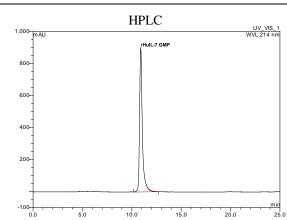
Usage: This GMP product can be for research use or further manufacturing use.

Quality statement: The manufacture and testing of this product is in compliance with ICH Q7a guidelines.



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