

## Recombinant Human Interleukin-2 GMP (rHuIL-2 GMP)

## **PrimeGene Technical Data Sheet**

Catalog Number: GMP-101-02 Source: Escherichia coli.

**Molecular Weight:** Approximately 15.4 kDa, a single non-glycosylated polypeptide chain containing 133 amino acids.

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

AA Sequence: APTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE

EELKPLEEVL NLAOSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR

WITFCQSIIS TLT

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

**Biological Activity:** Fully biologically active when compared to standard. Measured in a cell proliferation assay using

CTLL-2 cells. The specific activity of Recombinant human IL-2 is  $> 1.0 \times 10^7$  IU/mg, which is

calibrated against human IL-2 WHO International Standard (NIBSC code: 86/500).

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 3.5.

**Endotoxin:** Less than 0.01 EU/μg of rHuIL-2 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 20ng/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 H<sub>2</sub>O** 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. Do not reconstitute in cell culture media directly.

**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.

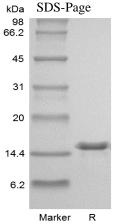
A minimum of 12 months when stored at  $\leq$  -20 °C as supplied. Refer to lot specific COA for the Use by Date.

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

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

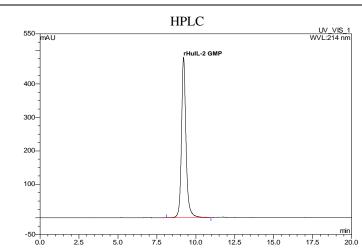
**Usage:** This GMP product can be for research use or further manufacturing use.

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



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