# Guidelines for Use





Product Name: OptiLeukin<sup>™</sup> 2 Product Number: 555OLK0070 Format: Lyophilized Powder Product Description: Recombinant Human Interleukin 2, Animal-Origin-Free

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### 1. Product Description

OptiLeukin 2 is a high-purity, recombinant human interleukin-2 (rhIL-2) manufactured using a chemically defined, animal- and bacteria-free platform. Designed to minimize regulatory burden and simplify raw material qualification, it offers consistent bioactivity and lot-to-lot performance for immune cell expansion workflows. OptiLeukin 2 is ideal for GMP-compliant cell therapy, biomanufacturing, and immunotherapy development.



#### 2. Reconstitution Instructions

- 1. Reconstitute lyophilized OptiLeukin 2 in sterile, cell culture–grade water to a final concentration of 100 μg/mL.
- 2. Mix gently by triturating—avoid forming foam or bubbles; **do not vortex**.
- 3. Allow full dissolution (2–5 minutes) and visually confirm that no powder remains in solution

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# 3. Handling & Storage

- Store lyophilized powder at 4°C, -20°C, or -80°C for up to 6 months, protected from light.
- Once reconstituted, aliquot and store at 4°C for up to 1 month or at –20°C or –80°C for up to 6 months.
- Avoid repeated freeze-thaw cycles.
- Do not expose to room temperature for extended periods post-reconstitution.

# 4. Suggested Concentration Range

• Adjust final concentration based on protocol and cell type requirements.

Cell Type	Low	High
Pan T Cells	100 IU/mL	300 IU/mL
T regs	100 IU/mL	300 IU/mL
γδ T cells	100 IU/mL	200 IU/mL
NK cells	400 IU/mL	600 IU/mL
TILs	6,000 IU/mL	7,000 IU/mL

# 5. Sterility & Filtration

- OptiLeukin 2 is 0.2 µm sterile filtered prior to lyophilization.
- Prepared in a chemically defined formulation suitable for cell culture applications.
- As with all cell therapy reagents, use aseptic technique and good laboratory practices when handling or preparing for use.

# 6. Application-Specific Notes

- Supports ex vivo expansion of T cells, Tregs, TILs, γδ T cells, and NK cells for use in advanced immunotherapy and cell therapy platforms.
- Compatible with serum-free, chemically defined systems across research and GMP workflows.
- Used in cell therapy, immune cell manufacturing, and iPSC-derived immune platforms.
- Scalable, regulatory-friendly alternative to E. coli– and HEK-derived IL-2.
- Designed for performance, reproducibility, and compliance in clinical and commercial biomanufacturing environments.

### 7. Regulatory Notes

- Animal-Origin-Free (AOF)
- Bacteria-Free
- Chemically Defined
- No adventitious virus or retrovirus testing required
- Reduced validation burden vs. E. coli– and HEKderived IL-2
- Manufactured in cGMP Compliant, ISO 9001 Certified Facility
- Made in the USA

### 8. Additional Resources

- OptiLeukin 2 SDS
- OptiLeukin 2 Data Sheet
- OptiLeukin 2 Product Page

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