

GMP ProDots™ Proteins

For *Ex Vivo* Cell And Gene Therapy Manufacturing

Welcome to the Future of GMP Cytokines!

GMP ProDots Proteins are pre-aliquoted, lyophilized, and instantly dissolvable spheres of animal-free GMP cytokines that are conveniently packaged into single-use bags for closed-system cell therapy manufacturing.

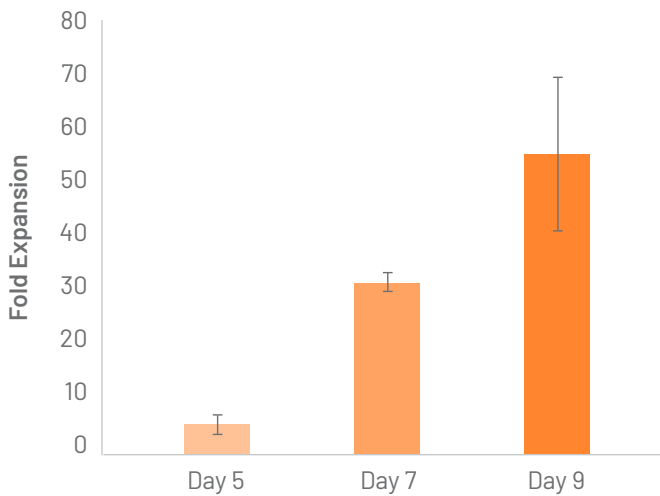
This unique design reduces the time, cost, and risk associated with traditional methods of cytokine addition into closed systems by:

- Eliminating aliquoting
- Reducing cost associated with unused GMP protein waste
- Quickly welding into standard closed-system tubing
- Limiting process risk and handling errors
- Improving efficiency of GMP protein supplementation

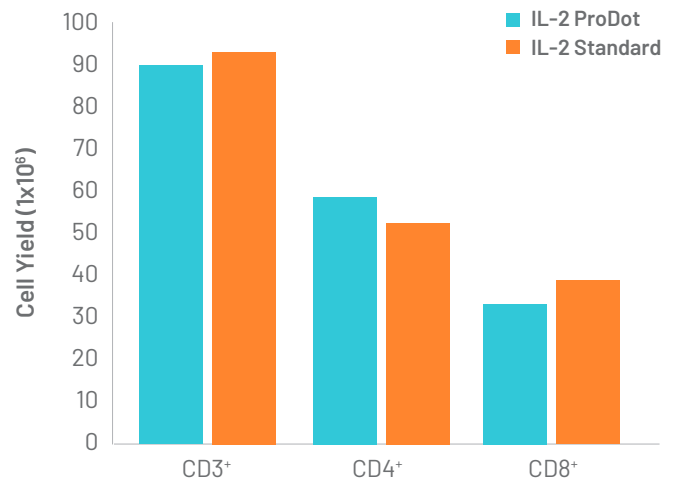


Ideal for T Cell Manufacturing

Scalable closed system solutions are needed to commercialize and fully realize the therapeutic potential of CAR-T and TCR T cell therapies. GMP ProDots are that solution. We currently offer GMP ProDots for IL-2, IL-7, and IL-15.



Robust T Cell Expansion using ProDots GMP IL-2. Human T cells show robust fold expansion when cultured for 9 days using ProDots GMP IL-2 in combination with ExCellerate T Cell Media and Cloudz T Cell Activation Kit. T cells were expanded from human PBMCs.



Equivalent to Standard GMP Proteins. Similar yields of CD3⁺, CD4⁺, and CD8⁺-positive human T cells were obtained when expanding cells using either ProDots GMP IL-2 or standard lyophilized GMP IL-2 from Bio-Techne. T cells were expanded from human PBMCs.



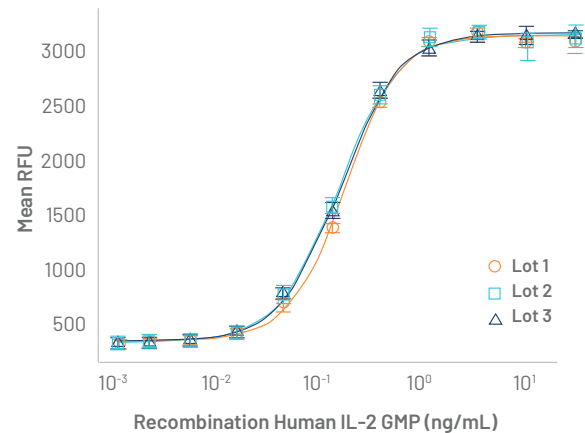
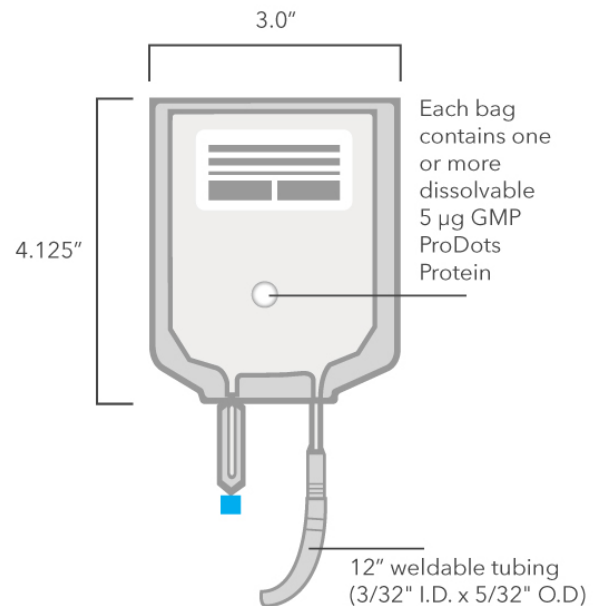
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Features of GMP ProDots Proteins

- Feature recombinant human proteins from R&D Systems, a Bio-Techne brand.
- Manufactured under animal-free and GMP controlled conditions.
- Dissolve instantly in cell culture media or buffer
- Aseptically packaged into single-use bags and tested to USP <71> guidelines
- Each bag contains a pre-aliquoted amount of GMP 5 µg protein dots
- Bags contain weldable tubing and a syringe port injection for sterile docking

Trusted and Scalable Supply

GMP ProDots are manufactured by Bio-Techne and utilize R&D Systems industry-leading GMP Proteins as the source material. Bio-Techne's expertise in protein development and manufacturing, combined with stringent quality control and experienced regulatory support, allows us to offer industry-leading GMP proteins for cell therapy manufacturing.



Consistent Lot-to-Lot Activity. Three lots of ProDots GMP Human IL-2 were tested for bioactivity using a cell proliferation assay (CTLL-2 mouse cytotoxic T cell line). Data show similar ED₅₀ (0.05-0.25 ng/mL) for the three lots.

GMP ProDots Proteins Available

| GMP Protein | Animal Free | Source | Description | Catalog # |
|-------------|-------------|----------------|---|---------------------------------|
| IL-2 | ✓ | <i>E. coli</i> | 20 µg of GMP IL-2 packaged into single-use bags. | PRD202-GMP |
| IL-7 | ✓ | <i>E. coli</i> | 10 µg of GMP IL-7 packaged into single-use bags. | PRD207-GMP |
| IL-15 | ✓ | <i>E. coli</i> | 5 µg of GMP IL-15 packaged into single-use bags. | PRD247-GMP |
| IL-21 | ✓ | <i>E. coli</i> | 10 µg of GMP IL-21 packaged into single-use bags. | PRD8879-GMP Coming Soon! |

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Contact us: info@scaleready.com

ScaleReady is a Joint Venture formed by Bio-Techne, Fresenius Kabi, and Wilson Wolf. Combining selected offerings from the three partners, the ScaleReady manufacturing platform combines tools and technologies for cell culture, cell activation and expansion, gene editing, and cell processing.

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