

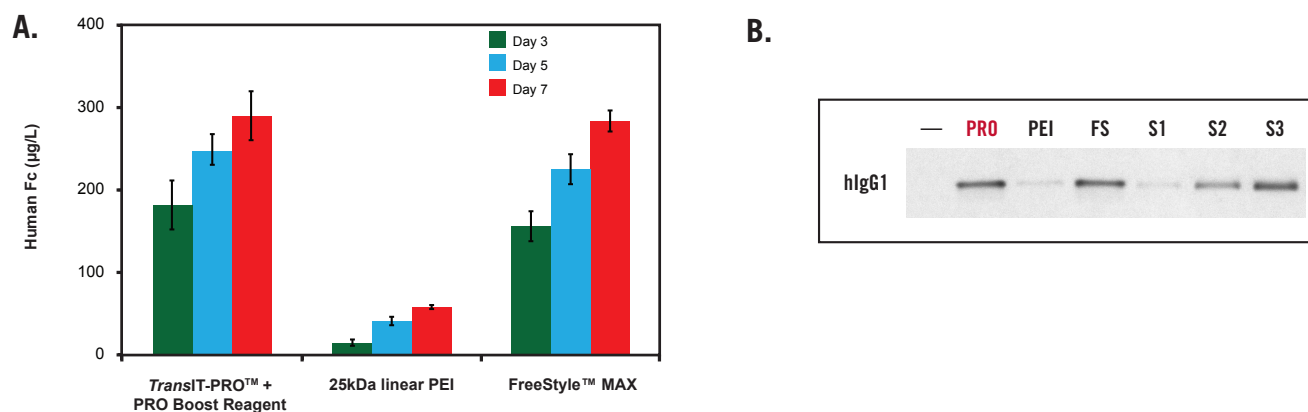
# NEW! *TransIT-PRO*<sup>TM</sup> Transfection Kit

## MAXIMIZE Protein Yield

### Ideal for Biotechnological Protein Production

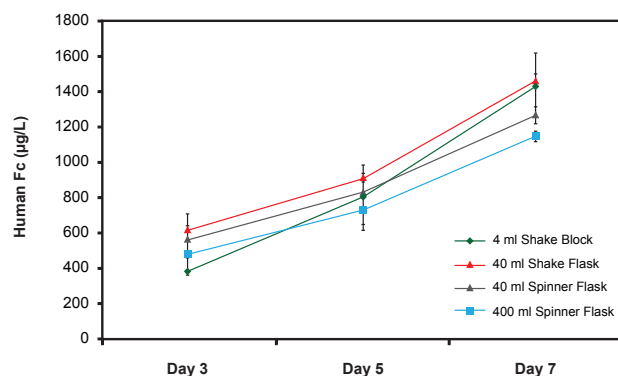
- ▷ Achieve high protein yield in suspension CHO and 293 cells
- ▷ Compatible with multiple CHO media formulations
- ▷ Reproducible protein expression with minimal optimization

### High Performance: A Cost-effective Alternative for Protein Production



**Figure 1.** Achieve high antibody titers using the *TransIT-PRO*<sup>TM</sup> Transfection Kit. Human IgG was produced by transient transfection using *TransIT-PRO* and PRO Boost Reagent (1:1:1), 25 kDa linear PEI (6:1) or FreeStyle<sup>TM</sup> MAX (1:1) transfection reagents according to the manufacturers or published protocol (reagent:DNA ratio). FreeStyle<sup>TM</sup> CHO-S cells were cultured in 20 ml of FreeStyle<sup>TM</sup> CHO Expression medium in 125 ml shake flasks. (A) Day 3, 5 and 7 supernatants were clarified and analyzed using a human IgG-Fc sandwich ELISA. (B) Day 7 supernatants were clarified and analyzed by Western blot. An IgG standard was included for quantification estimate (S1= 1.6 mg/L, S2= 3.2 mg/L, S3 = 6.3 mg/L).

### Scale-up: No Problem



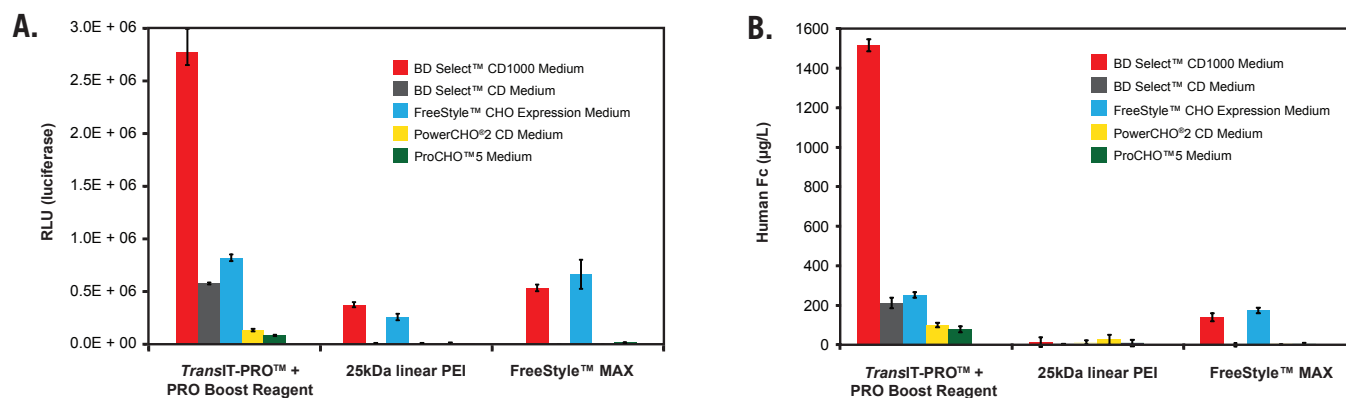
**Figure 2.** Scaling of transient transfection using *TransIT-PRO*<sup>TM</sup> Transfection Kit is linear from 4 to 400 milliliters. CHO-S cells were cultured in BD Select<sup>TM</sup> CD1000 media in designated culture vessels and transfected with human IgG1 construct (1µg/mL of culture) and a ratio of *TransIT-PRO*: PRO Boost Reagent: DNA ratio of 1:0.5:1. Day 3, 5 and 7 supernatants were clarified and analyzed by an anti-Fc sandwich ELISA. Error bars represent the standard deviation of triplicate technical replicates.



The Transfection Experts

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## Easy to Use: Compatible with Multiple Media Formulations



**Figure 3.** FreeStyle™ CHO-S cells were adapted to five representative growth media including: BD Select™ CD1000 Medium (Becton, Dickinson and Company, Franklin Lakes, NJ), BD Select™ CHO Medium (Becton, Dickinson and Company, Franklin Lakes, NJ), FreeStyle™ CHO Expression Medium (Life Technologies Corporation, Carlsbad, CA), ProCHO™5 Medium (Lonza Inc., Allendale, NJ) and PowerCHO®2 CD Medium (Lonza Inc., Allendale, NJ). Cells were transfected with a plasmid using the *TransIT-PRO* and PRO Boost Reagent (1:1:1), 25kDa linear PEI (4:1) (Polysciences, Warrington, PA), or FreeStyle™ MAX (1:1) (Life Technologies Corporation, Carlsbad, CA) transfection reagents according to the manufacturers or published protocol (reagent:DNA ratio). Transfections were performed in 24-well deep well shaker blocks using 1 µg plasmid DNA per milliliter of culture. (A) Luciferase expression was assessed 48 hours post-transfection using a conventional luciferase assay. (B) Human IgG1 was quantified from day 5 clarified supernatants and analyzed by a human anti-Fc sandwich ELISA.

### TransIT-PRO™ Transfection Kit

PRODUCT NO.	SIZE
MIR 5700	1 ml
MIR 5760	10 ml

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