

Human IgG1 Expression Control

Quick Reference Protocol

Instructions for MIR 6250

SDS and Certificate of Analysis available at mirusbio.com/6250



SPECIFICATIONS

Storage	Store Human IgG1 Expression Control at -20°C .
Product Guarantee	1 year from the date of purchase, when properly stored and handled.
Concentration	100 μg at 1 mg/ml, sterile filtered in DI water

► Human IgG1 Expression Control Transfection

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The Human IgG1 Expression Control contains a mixture of codon-optimized, CMV-driven plasmids that express the heavy and light chains of human IgG1, a secreted antibody. This product incorporates DNA2.0 IP-Free[®] vector technology and is provided as a 1 mg/ml transfection-grade plasmid mixture sufficient for transfecting up to 100 ml of suspension CHO or HEK 293 cells in culture. Antibody titers of at least 50 mg/L are obtained from clarified supernatants Day 6 post-transfection when using the Human IgG1 Expression Control with the CHOgro[™] Expression System (MIR 6260) and assayed with the ZeptoMetrix Human IgG ELISA kit (Cat.No. 0801182).

Fill in volumes below based on total culture volume (Table 1).

A. Maintenance of cells

1. Split cells 18–24 hours prior to transfection to obtain a next day density of $4\text{--}10 \times 10^6$ cells/ml.
2. Culture cells overnight.

B. Prepare *TransIT-PRO*[®] Reagent:Human IgG1 Expression Control DNA complex

1. Seed cells at a density of 2×10^6 cells/ml immediately before transfection.
2. Warm *TransIT-PRO*[®] Reagent to room temperature and vortex gently.
3. Place ___ ml of serum-free complex formation medium (e.g. Opti-MEM[®] or OptiPRO[™] for suspension 293 cells and CHOgro[™] Complex Formation Solution for suspension CHO cells) in a sterile tube.
4. Add ___ μg Human IgG1 Expression Control. Mix gently by pipetting.
5. Add ___ μl of *TransIT-PRO*[®] Reagent. Mix gently by pipetting.
6. Incubate at room temperature for 5-15 minutes.

C. Distribute complexes to cells

1. Add *TransIT-PRO*[®]:Human IgG1 Expression Control complexes to cultured cells.
2. Incubate cells for 2-6 days at 37°C in 8% CO_2 .
3. Harvest supernatant and assay as required.

Table 1. Volume scaling worksheet for DNA transfections with *TransIT-PRO*[®] Transfection Reagent.

Starting conditions per milliliter of complete growth medium			
	Per 1 ml	Total culture volume	Reagent quantities
Serum-free complex formation medium	0.1 ml	× _____ ml	= _____ ml
Human IgG1 Expression Control (1 $\mu\text{g}/\mu\text{l}$ stock)	1 μl	× _____ ml	= _____ μl
<i>TransIT-PRO</i> [®] Reagent	1 μl	× _____ ml	= _____ μl

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Mirus Bio LLC

www.mirusbio.com | techsupport@mirusbio.com | Toll Free (U.S.): 844.MIRUBIO | Direct: +1.608.441.2852

▶ NOTES

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Mirus Bio LLC

www.mirusbio.com | techsupport@mirusbio.com | Toll Free (U.S.): 844.MIRUBIO | Direct: +1.608.441.2852