



Product Specification Sheet

Product Name: Repro-PACT (1000x)
Catalog Number: K7228-500
Package Size: 0.50 mL

Technical information:

Cocktail Formulation: DMSO solution contains: 0.5 mM of PD0325901, 0.5 mM of A83-01, 3.0 mM of CHIR99021, 0.5 mM of Thiazovivin

Purity: >98% (for each compound)

Storage: Store DMSO solution at -20°C.

Usage: Dilute Repro-PACT at 1:1000 into your basic ES media to make Repro-PACT media.

Biological Activity: According to literatures¹⁻⁴, the supplement of small molecule cocktail (Repro-PACT) in cell culture media will simplify the process and increase the productivity in generating iPS cells. This process can be easily scale-up simply by culturing more cells.

Repro-PACT can be used on many cell types, including primary skin fibroblasts, peripheral blood mononuclear cells, endothelial cells, or keratinocytes, and can be used in combination with any of the widely used reprogramming gene expression systems (e.g. retro/lenti-viral, episomal, mRNA, or proteins) to enhance the reprogramming to iPS cells.

- Reference:**
1. Lin et al. (2009) A chemical platform for improve induction of human iPS cells. *Nature Method* 6, 805-808.
 2. Kawamata et al. (2010). Generation of genetically modified rats from embryonic stem cells. *PNAS* 107, 14223-14228.
 3. Zhu et al. (2010) Reprogramming of human primary somatic cells by OCT4 and chemical compounds. *Cell Stem Cell* 7, 651-655.
 4. Yu et al. (2011) Efficient feeder-free episomal reprogramming with small molecules. *PLoS ONE* 6(3): e17557.
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For Technical Support: technical@cellagentech.com

For research use only, not for clinical or diagnostic use.



Product Specification Sheet

Product Name: Repro-PACT (5000x)
Catalog Number: K7228-H200
K7228-H1000
Package Size: 0.20 mL

Technical information:

Cocktail Formulation: DMSO solution contains: 2.5 mM of PD0325901, 2.5 mM of A83-01, 15.0 mM of CHIR99021, 2.5 mM of Thiazovivin
Purity: >98% (for each compound)
Storage: Store DMSO solution at -20°C.
Usage: Dilute Repro-PACT at 1:5000 into your basic ES media to make Repro-PACT media.

Biological Activity: According to literatures¹⁻⁴, the supplement of small molecule cocktail (Repro-PACT) in cell culture media will simplify the process and increase the productivity in generating iPS cells. This process can be easily scale-up simply by culturing more cells.

Repro-PACT can be used on many cell types, including primary skin fibroblasts, peripheral blood mononuclear cells, endothelial cells, or keratinocytes, and can be used in combination with any of the widely used reprogramming gene expression systems (e.g. retro/lenti-viral, episomal, mRNA, or proteins) to enhance the reprogramming to iPS cells.

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1. Lin et al. (2009) A chemical platform for improve induction of human iPS cells. Nature Method 6, 805-808.
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 4. Yu et al. (2011) Efficient feeder-free episomal reprogramming with small molecules. PLoS ONE 6(3): e17557.
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