

온라인용 Brochure입니다.

2016

Polyplus⁺
transfection[®]

THE DELIVERY EXPERTS



상담 및 문의 - 코스모진텍 학술지원팀

Tel (02) 465 - 6217 Fax (02) 499 -3084

support@cosmogenetech.com

www.cosmogenetech.com

DNA &/or siRNA Transfection Reagent jetPRIME

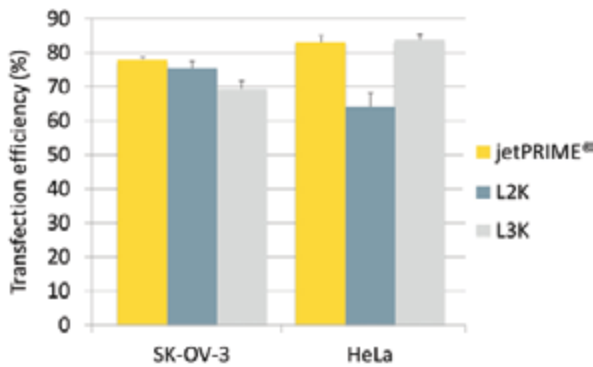


최고의 효율, 다양한 용도로 사용 가능한 Transfection Reagent

- DNA transfection
- siRNA transfection
- DNA/siRNA cotransfection
- CRISPR/Cas9
- Virus production

+ 탁월한 DNA transfection 효율

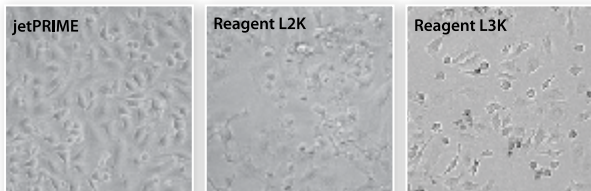
타사대비 우수한 transgene expression yield



FACS analysis 24 h after GFP plasmid transfection according to the manufacturer's recommendation.

+ Cell viability 증가

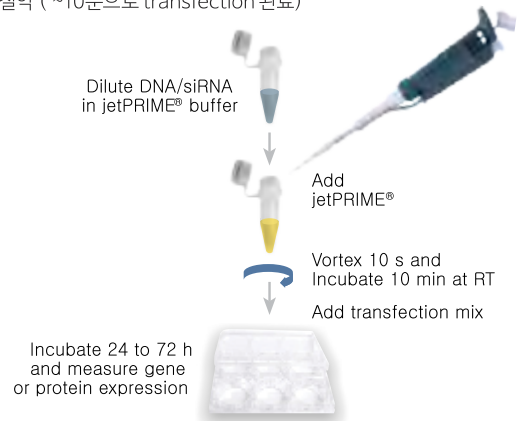
더욱 합리적이고 재현성있는 결과 생성 가능



Phase contrast microscopy of HeLa cells 24 h after transfection according to the manufacturer's recommendation.

+ Serum, Antibiotics와 상관없는 간편한 프로토콜

Transfection 전후 media change 필요 없음
Opti-MEM® 사용할 필요 없음
시간 절약 (~10분으로 transfection 완료)



jetPRIME® easy protocol for 6-well plates.

+ 가격 경쟁력

타사대비 소량의 Reagent 및 DNA 사용으로 vial 당 2~3배의 추가실험이 가능함

6-well plate			
Reagent	Volume of reagent per well	Amount of DNA per well	Number of transfections per 1.5 ml vial
jetPRIME®	2 - 4 µl	1 - 2 µg	375 - 750
L2K	5 - 12.5 µl	2.5 µg	120 - 300
L3K	3.75 - 7.5 µl	2.5 µg	200 - 400

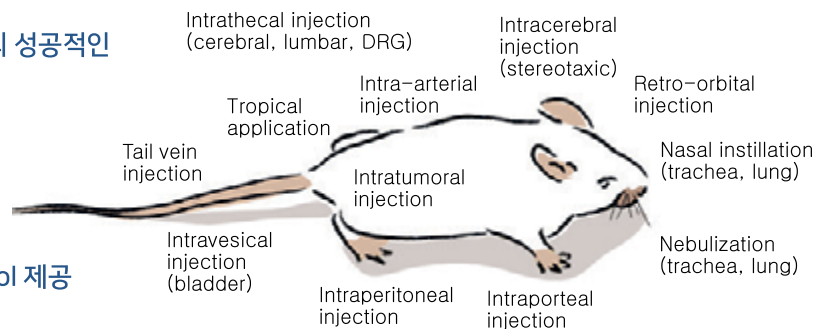
In vivo DNA & siRNA Delivery Reagent in vivo-jetPEI



IDEAL FOR SUBCUTANEOUS
TUMOR MODELS

Reagent 방식으로 in vivo 실험에 쉽고 편하게 적용

- + DNA, siRNA, miRNA 및 oligonucleotide의 성공적인 in vivo delivery
- + 200편 이상의 논문에 인용된 제품
- + Very easy to use : **Just mix and inject!**
- + 치료적인 접근과 임상연구에 사용
- + Reagent에 의한 염증 반응 없음
- + 연구자의 Reasearch에 따라 맞춤형 Protocol 제공
- + 다양한 생물 개체의 다양한 부위로 투여 가능

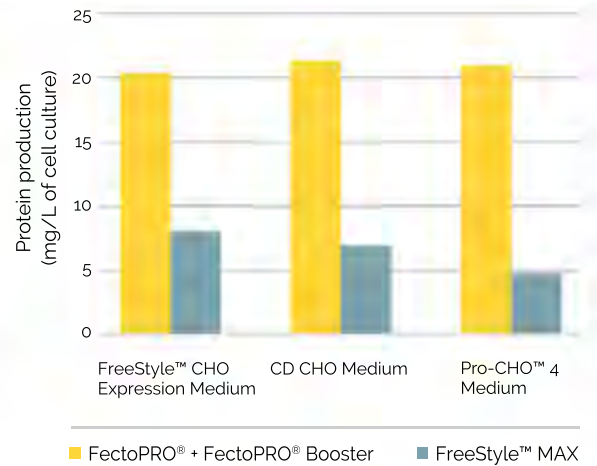
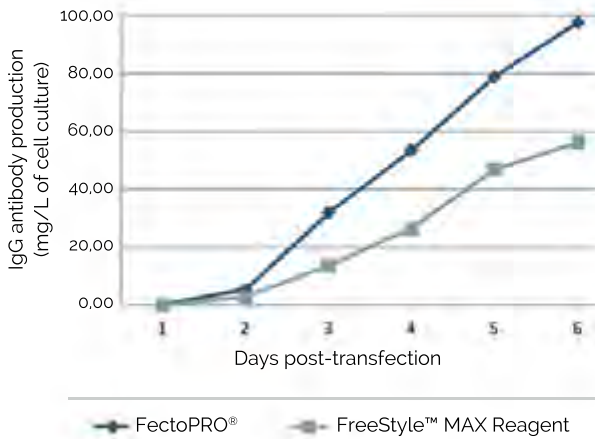


Bioproduction FectoPRO



Suspension CHO 및 HEK-293 cell에서 타사제품 대비 월등한 protein yield!

- ✦ 재조합 protein 및 antibody 생산 yield 향상
- ✦ 합리적 가격의 Transient Gene Expression (타사 대비 소량의 Plasmid 사용)
- ✦ 다양한 bioproduction 용도의 media와 cell system에 최적화
- ✦ Biomanufacturing guidelines 준수

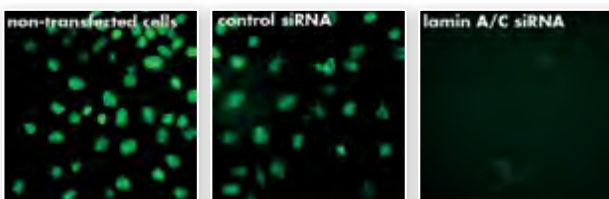


siRNA/miRNA Transfection Reagent INTERFERin



저농도의 siRNA / miRNA transfection으로 off-target effect 최소화

- ✦ 1 nM siRNA 에서도 효과적
Off-target effect 없이 높은 gene silencing 효과를 얻을 수 있음
- ✦ miRNA transfection에 적합
- ✦ 다양한 cell type에서 90% 이상의 gene silencing 효율을 얻을 수 있음
- ✦ Serum, antibiotics와 상관없는 간편한 프로토콜
- ✦ 탁월한 cell viability
신뢰성 높은 실험 결과 생성



Efficient and specific gene silencing following 1 nM INTERFERin-mediated siRNA transfection. Immunofluorescence microscopy 48 h after transfection

Silencing efficiency	
Adherent cell lines (1 nM siRNA)	
A549	> 90%
HeLa	
CaSki	
MCF7	
NIH-3T3	
RAW 264.7	
SiHa	60-70%
HepG2	
Primary cells (1 nM siRNA)	
Murine embryonic fibroblasts	> 90%
Primary human fibroblasts	
Primary human hepatocytes	
Suspension cell lines (5 nM siRNA)	
K562	> 80%
THP-1	

Selected successfully transfected cell lines and silencing efficiencies obtained with INTERFERin®.

Reagent	Reagent size	Buffer size	Polyplus Cat. No
in vitro			
jetPRIME Transfection reagent + buffer Broad range of adherent cell lines, DNA and/or siRNA transfection	0.1 ml	5 ml	114-01
	0.75 ml	60 ml	114-07
	1.5 ml	2 x 60 ml	114-15
	5 x 1.5 ml	10 x 60 ml	114-75
jetPRIME Transfection Reagent + buffer 5 x conc.	5 x 1.5 ml	120 ml	114-75C
INTERFERin Transfection Reagent siRNA day-to-day transfection	0.1 ml	-	409-01
	1 ml	-	409-10
	5 x 1 ml	-	409-50
FectoPRO™ DNA Transfection Reagent Bioproduction of Protein and Antibody	1 ml	1 ml	116-001
	10 ml	10 ml	116-010
	10 x 10 ml	10 x 10 ml	116-100
PEIpro™ DNA Transfection Reagent Protein & virus production	10 ml	-	115-010
	100 ml	-	115-100
	4 x 100 ml	-	115-400
jetPEI Transfection Reagent + NaCl solution DNA High Throughput Screening	0.1 ml	5 ml	101-01N
	1 ml	50 ml	101-10N
	4 x 1 ml	4 x 50 ml	101-40N
	10 ml	2 x 250 ml	101B-010N
jetPEI DNA Transfection Reagent DNA High Throughput Screening	1 ml	-	101-10
	4 x 1 ml	-	101-40
	10 ml	-	101B-010
jetPEI -Hepatocyte Transfection Reagent + NaCl solution DNA transfection into hepatocyte cells	0.1 ml	5 ml	102-01N
	0.5 ml	50 ml	102-05N
jetPEI -Macrophage Transfection Reagent + NaCl solution DNA transfection into macrophage cells	0.1 ml	5 ml	103-01N
	0.5 ml	50 ml	103-05N
jetPEI -HUVEC Transfection Reagent + NaCl solution DNA transfection into HUVEC	0.1 ml	5 ml	108-01N
	0.5 ml	50 ml	108-05N
PULSin™ Protein, Antibody and Peptide Delivery Reagent Hepes solution + 200 µL positive control included	0.1 ml	20 ml	501-01
	0.4 ml	20 ml	501-04
INTERFERin -HTS Transfection Reagent siRNA High Throughput Screening	0.2 ml	-	410-002
	1.5 ml	-	410-015
in vivo			
in vivo-jetPEI Delivery Reagent + glucose sol. DNA and siRNA in vivo delivery	0.1 ml	10 ml	201-10G
	1.5 ml	2 x 10 ml	201-50G
in vivo-jetPEI -Gal Delivery Reagent + glucose sol., Galactose-conjugated	0.1 ml	10 ml	202-10G
in vivo-jetPEI -Man Delivery Reagent + glucose sol., Mannose-conjugated	0.1 ml	10 ml	203-10G
jetSI™ 10 mM Delivery Reagent, siRNA delivery into the brain	0.5 ml	-	403-05

Polyplus-transfection started in 2001 to market transfection products developed in the lab of Dr. Jean-Paul Behr, who is considered one of the preminent transfection researchers in the world. Seminal work was published in 1989 on the use of polycationic lipids for the use of transfection⁽¹⁾ that led to several still popular transfection reagents. The next advancement in this field is associated with Polyethylenimine (PEI), a cationic polymer. PEI was discovered as an improved transfection reagent in 1995⁽²⁾ and its associated «proton sponge» transfection paradigm is at the root of many modern transfection reagents.

Polyplus-transfection continues its strong tradition of scientific excellence and innovation offering the best reagents for delivery of nucleic acids in the market today.

(1) J.-P. Behr, B. Demeneix, J.-P. Loeffler, J. Perez-Mutul, «Efficient gene transfer into mammalian primary endocrine cells with lipopolyamine coated DNA», Proc. Natl. Acad. Sci. USA, 86, 6982, 1989.
(2) O. Boussif, P. Lezoualc'h, M.A. Zanta, M.D. Mergny, D. Scherman, B. Demeneix, J.P. Behr, «A versatile vector for gene and oligonucleotide transfer into cells in culture and in vivo: polyethylenimine.» Proc. Natl. Acad. Sci. USA, 92, 7297-7301, 1995.

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