

- ExiProgen™ (Instrument)
- Function I: Automatic Protein Synthesis
- Function II: Automatic Protein Purification
- Function III: Automatic Nucleic Acid Extraction
- Ordering Information



ExiProgen™ (Instrument)



Features and Benefits

- World's First, Fully Automated System for Protein Synthesis and Nucleic Acid Extraction
- 16 simultaneous reactions of protein synthesis and nucleic acid extraction
- Optimized protocols for each experiment provide reproducible results
- Temperature Controlled Block allows 4 to 90°C temperature change
- Magnet Block enables high-purity, high-efficiency protein purification and nucleic acid extraction
- Contamination Shield prevents well-to-well cross contamination caused by pipetting
- Touch screen maximizes user convenience through easy operation as well as real-time confirmation of experiment progress
- Automatic UV lamp sterilizes the inside of the instrument both before and after the experiment

Patents

- KR 10-2011-0041126, 10-2012-0090149, 10-2012-0138335, 10-2013-0152613
- PCT/KR2011/003245, PCT/KR2013/011022

Specification

Dimensions (W x H x D)	320 mm x 500 mm x 535 mm
Weight	27 kg
Usage environment	temperature 15-30°C / humidity 20-80%, no condensation
User interface	320 x 240 touch screen graphic LCD, 18bit color
Voltage	100 – 240 VAC,50 / 60 Hz
Network	TCP/IP protocol
Magnet & Heating Block	30-90 ℃
Temperature Controlled Block	4-90℃

Function I: Automatic Protein Synthesis

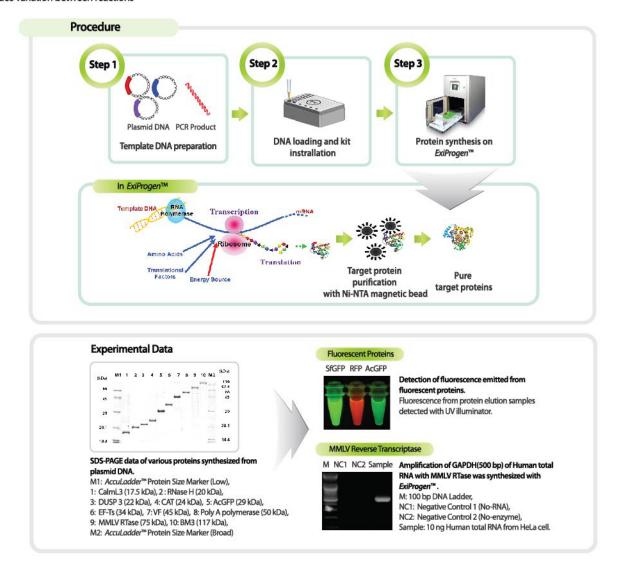
 $ExiProgen^{TM}$ protein synthesis kits perform cell-free protein synthesis in a reaction tube from template DNA such as T7 expression vector inserted with target gene and 6X His-tag sequences.

ExiProgen™ kits for protein synthesis

Target		Available kit	
The second second	Small scale	ExiProgen™ EC Protein Synthesis Kit	
His-tagged protein	Large scale	ExiProgen™ EC-Maxi Protein Synthesis Kit	
Natural protein		ExiProgen™ EC-Tagfree Protein Synthesis Kit	
Disulfide bonded prof	tein	ExiProgen™ EC-Disulfide Protein Synthesis Kit	

Features and Benefits

- Install an ExiProgen™ kit with template DNA into the instrument, and you can get a purified target protein
- Synthesize enzymes, growth hormones, antibodies, and even toxic proteins using ExiProgen™
- Synthesize various size, 8-to-16 different proteins simultaneously
- You can obtain 10~120 kDa proteins from plasmid DNA as template DNA and 10~60 kDa from PCR product
- Provide a reproducible results by minimizing human intervention
- Reduce variation between reactions



Function II: Automatic Protein Purification

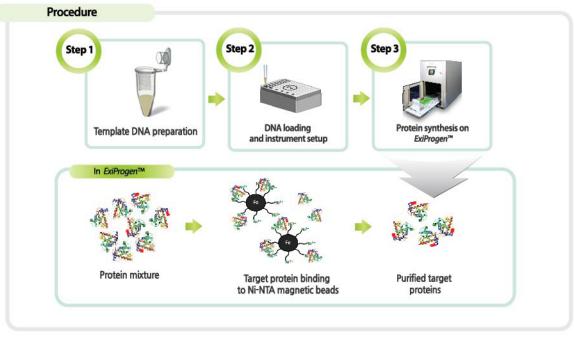
ExiProgen™ protein purification kits contains patented, Ni-NTA-coated silica magnetic beads, which purify target proteins containing His-tag from cell culture or cell lysate.

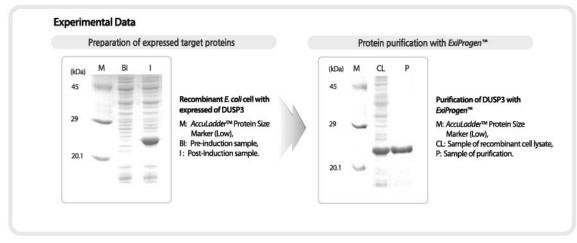
ExiProgen™ kits for protein purification

Sample type	Available kit	
Bacteria sample	5 (December 1981) and a second provider of the second provider of th	
In vitro expression sample	ExiProgen™ His-tagged Protein Purification Kit	
Eukaryotic sample	ExiProgen™ Cell-Based Protein Purification Kit	

Features and Benefits

- Purify recombinant proteins expressed in vivo or in vitro
- Supplied pre-filled cartridge for protein purification. Just prepare cell lysate or cell-free expressed protein sample
- Provide 8 to 16 different proteins simultaneously purified in high purity of more than 90%





Function III: Automatic Nucleic Acid Extraction

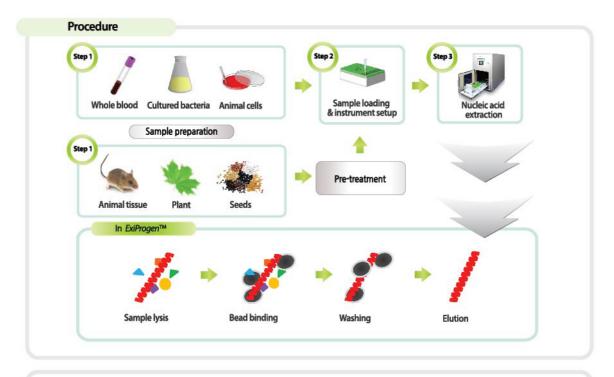
ExiProgen™ nucleic acid extraction kits extract nucleic acids using patented silica magnetic beads only by three steps: sample preparation, sample injection and instrument setup, and nucleic acid extraction.

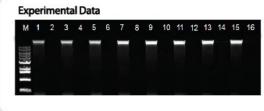
ExiProgen™ kits for nucleic acid extraction

Target	Sample type	Available kit	
Genomic DNA	Whole blood, Tissue, Bacteria	ExiProgen™ Blood/Tissue/Plant/Bacteria Genomic DNA Kit	
		ExiProgen™ Semi-Auto/Full-Auto Plasmid DNA Kit	
Fragment DNA	Plasmid DNA, PCR product, Gel	ExiProgen™ PCR Purification Kit	
		ExiProgen™ Gel Extraction Kit	
Total RNA	Animal tissue, Plant	ExiProgen™ Tissue/Plant total RNA Kit	
Virus DNA/RNA	Serum, Plasma, Cell-free body fluid	ExiProgen™ Viral DNA/RNA Kit	

Features and Benefits

- Supplied with pre-filled cartridges containing all the necessary enzymes and reagents for nucleic acid extraction
- Extracts nucleic acids from 1 to 16 samples simultaneously
- Provide reproducible results with ExiProgen™
- Optimized buffers and pretreatment protocols for various samples
- Optimized buffers for a broad range of DNA fragment sizes





Genomic DNA purification from E.coli cell (1X10° cells)

Genomic DNA was extracted from 1X10° of E.coli cells using EdiProgen™ Bacteria Genomic DNA Kit followed by agarose gel electrophoresis. E.coli cells were added to every other well with blanks in between the samples containing only water in order to monitor cross-contamination during the automated process in ExiProgen™. No cross-contamination was observed during the process and the average yield was 10 µg, A360290 mm > 1.8.

Ordering information

nstrument	Cat. no.	Size
xiProgen™	A-5041	
rotein Synthesis & Purification Kits	Cat. no.	Size
ExiProgen™ EC Protein Synthesis Kit	K-7300,7301,7302	16,32,96 reactions
ExiProgen™ EC-Maxi Protein Synthesis Kit	K-7310	8 reactions
ExiProgen™ EC-Tagfree Protein Synthesis Kit	K-7320	8 reactions
ExiProgen™ EC-Disulfide Protein Synthesis Kit	K-7330	8 reactions
ExiProgen™ His-tagged Protein Purification Kit	K-7220,K-7221	16,32 reactions
ExiProgen™ Cell-Based Protein Purification Kit	K-7230	16 reactions
Nucleic acid Extraction Kits	Cat. no.	Size
ExiProgen™ Blood Genomic DNA Kit	K-4311	96 reactions
ExiProgen™ Tissue Genomic DNA Kit	K-4312	96 reactions
ExiProgen™ Bacteria Genomic DNA Kit	K-4314	96 reactions
ExiProgen™ Plant Genomic DNA Kit	K-4315	96 reactions
ExiProgen™ Tissue total RNA Kit	K-4342	96 reactions
ExiProgen™ Plant total RNA Kit	K-4344	96 reactions
ExiProgen™ Viral DNA/RNA Kit	K-4371	96 reactions
ExiProgen™ Gel Extraction Kit	K-4391	96 reactions
ExiProgen™ PCR Purification Kit	K-4392	96 reactions
ExiProgen™ Semi-Auto Plasmid DNA Kit	K-4381	48 reactions
ExiProgen™ Full-Auto Plasmid DNA Kit	K-4382	48 reactions
Related Products & Services	Cat. no.	Size
ExiProgen™ ProXpress PCR Template Kit	K-7400,7401	16,32 reactions
pBIVT vector set-1	K-7350	Each 5 µg
AccuRapid™ Cell-Free Protein Expression Kit	K-7250	45 µl x 24 reactions
AccuRapid™ Midi Protein Expression Kit	K-7260	1 ml x 5 reactions
AccuRapid™ Maxi Protein Expression Kit	K-7270	10 ml x 1 reaction
AccuRapid™ Protein Synthesis Kit	K-7280	5 reactions
AccuPrep® PCR Purification Kit	K-3034-1,3034	50,200 reactions
AccuPrep® Gel Purification Kit	K-3035-1,3035	50,200 reactions
AccuPrep® Nano-Plus Plasmid Mini Extraction Kit	K-3112,3111	50,200 reactions
AccuPrep® Nano-Plus Plasmid Midi Extraction Kit	K-3122	25 reactions
AccuPrep® Nano-Plus Plasmid Maxi Extraction Kit	K-3132,3131	10,25 reactions
AccuPrep® Plasmid Mini Extraction Kit	K-3030-1,3030	50,200 reactions
AccuLadder™ 100 bp DNA Ladder	D-1030	250 µl (135 ng/µl)
AccuLadder™ 1kb DNA Ladder	D-1040	500 μl (130 ng/μl)
AccuLadder™ Protein Size Marker (Low)	D-2020	500 μl
AccuLadder™ Protein Size Marker (Broad)	D-2010	500 µl
Gene Synthesis Service	S-2041	-
Protein Expression & Synthesis Service	-	1
Gene to Protein Service	_	_

Contact Us

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