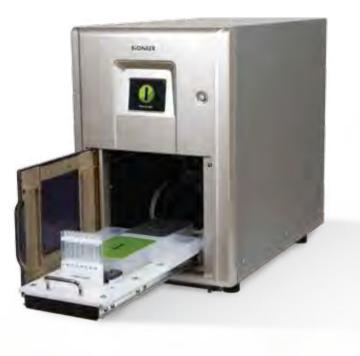
АНА•М

The World's First

Fully Automated Protein Synthesis/Purification And Nucleic Acid Extraction System

ExiProgen™





Bioneer Corporation is Korea's leading biotech company. Bioneer is the first Korean biotechnology company when it was established in 1992.

ExiProgen[™] handles all the jobs from DNA extraction to protein synthesis/purification!

Automatic Protein Synthesizer •

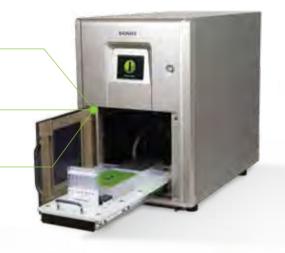
Takes only 6 hours from genes to proteins

Automatic Protein Purifier •

Automatically purify proteins through affinity tagging

Automatic Nucleic Acid Extractor •

Automatically isolate genomic DNA from various biological samples



16 simultaneous reactions undergoing protein synthesis and nucleic acid extraction	Optimized protocols providing reproducible results
✓ Temperature Controlled Block allowing 4 to 90℃ temperature change	Magnetic Block allowing high-purity, high-efficiency protein purification and nucleic acid extraction
Contamination Shield preventing well-to-well cross contamination caused by pipetting	Touch screen maximizing user convenience through easy operation along with real-time confirmation of experiment progress
Automatic UV lamp sterilizing the inside of the instrument both before and after the protocols	Minimized error range by integrating an adjustable syringe motor up to 0.1 mm capable of stably distribution of solution

Specifications

Dimension(cm)	32 (W) x 53.5 (D) x 50 (H)
Weight	27 kg
Temperature range	15~35 ℃
Humidity range	20~80%, no condensation
Operating system	Standalone
User interface	320 x 240 touch screen graphic LCD
Input voltage	100~240 VAC
Frequency	50/60 Hz
UV sterilization	15 minute cycler
Communications	TCP/IP
Heat block	40~90 °C

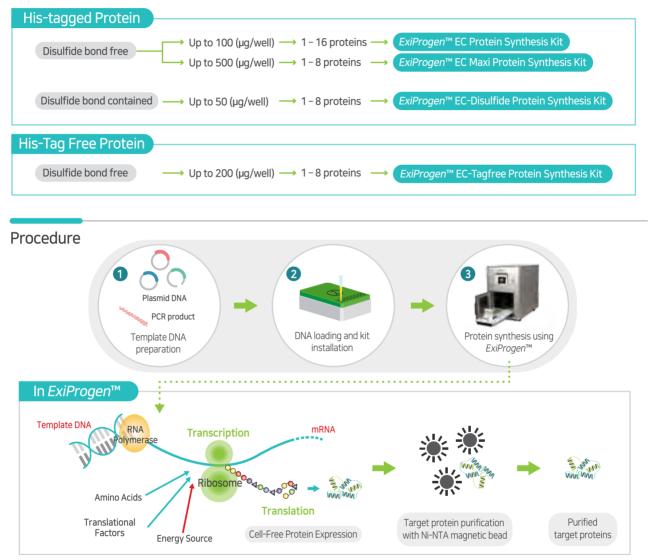


Easy-to-Use: Fully A

Automatic Protein Synthesizer

ExiProgen[™] Protein Synthesis Kit allows to synthesize proteins using *in vitro* systems. By utilizing T7 expression system, proteins can be synthesized with template DNA with exon sequences and 6x histidine tags.

- Synthesis is possible for complicated proteins that are difficult to be done in traditional *in vivo* expression systems such as toxic proteins, membrane proteins, etc.
- Wide variety of samples are possible from plasmid DNA to PCR products ranging from 10 kDa to 150 kDa
- Human Intervention is minimized by reducing the variation between reactions, providing reproducible results by minimizing human intervention



Experimental Data

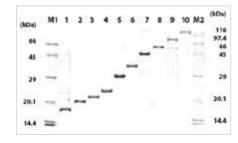
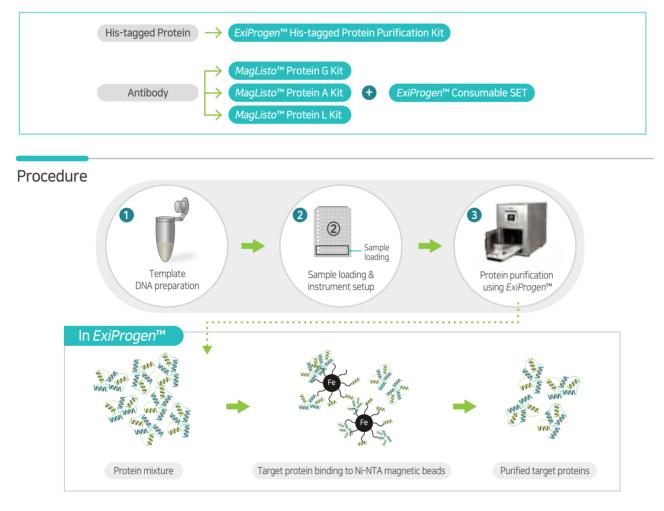


Figure 1. SDS-PAGE data of various proteins synthesized from plasmid DNA. M1: AccuLadder[™] Protein Size Marker (Low), 1: CalmL3 (17.5 kDa), 2: RNase H (20 kDa), 3: DUSP 3 (22 kDa), 4: CAT (24 kDa), 5: AcGFP (29 kDa), 6: EF-Ts (34 kDa), 7: VF (45 kDa), 8: Poly A polymerase (50 kDa), 9: *M-MLV* RTase (75 kDa), 10: BM3 (117 kDa), M2: AccuLadder[™] Protein Size Marker (Broad)

Automatic Protein Purifier

ExiProgen[™] Protein Purification Kit contains patented Ni-NTA, which is Protein G-A-L- coated silica magnetic bead that can purify targets containing His-tags or antibodies.

- 🗹 A wide range of purification is possible for all recombinant proteins with His-tag expressed in *in vivo* or *in vitro* system
- V Purify up to 16 different proteins at one time with over 90% purity
- In the second s
- Pre-filled cartridge contains all reagents required for protein purification which simplifies the process and reduces the variation between reactions



Experimental Data

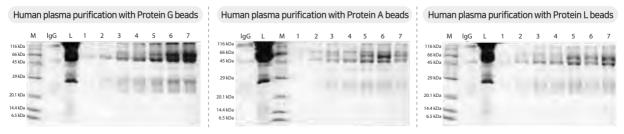


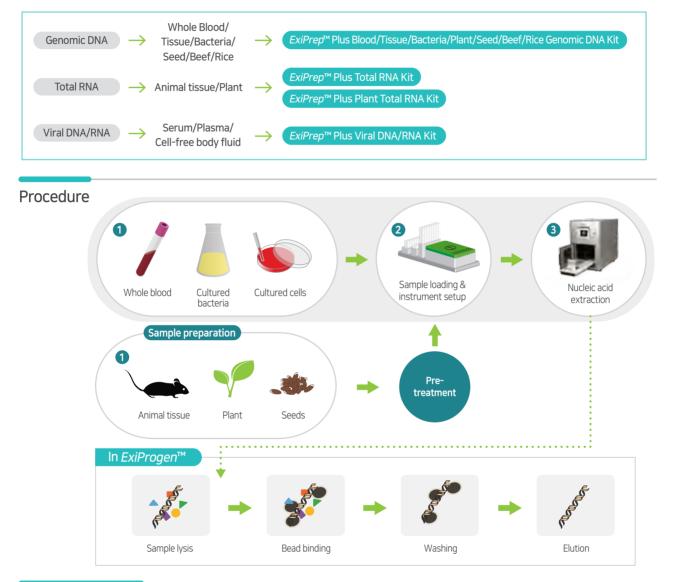
Figure 2. Human plasma purification using *MagListo™* Protein G, Protein A, Protein L Kit and *ExiProgen™* Consumable SET.

- The volume of protein samples loaded into each well is 7.5 μ l/400 μ l total elution samples.
- M: AccuLadder™ Protein Size Marker (Broad), IgG: purified human IgG 3 μg
- L: loading sample (human plasma 500 µl)
- 1~7: amount of beads, 1, 2.5, 5, 7.5, 10, 15, 20 mg

Automatic Nucleic Acid Extractor

ExiPrep[™] Nucleic Acid Extraction Kit extracts nucleic acids using patented silica magnetic beads in just three steps: sample preparation, sample injection & instrument setup, and nucleic acid extraction.

- ☑ All reagents are pre-dispensed into a buffer cartridge system
- M Ensures high yield and purity with Bioneer's patented magnetic silica beads
- ☑ Extract nucleic acids from up to 16 different samples simultaneously
- Guarantees reproducible results with automated protocols



Experimental Data

Genomic DNA from cultured mammalian cell(HeLa)

Figure 3. Lanes 1, 3, 5, 7, 9, 11, 13, 15 were extracted with 1×10^6 cells of cultured HeLa cell and lanes 2, 4, 6, 8, 10, 12, 14, 16 were extracted with ddH₂O as a negative control in DNA extraction. Note all samples have similar yields. Purity was also tested and was consistently between 1.8 and 2.0 (not shown).

Genomic DNA from bacteria(E.coli)



Figure 4. Lanes 1, 3, 5, 7, 9, 11, 13, 15 were extracted with 1×10^{9} cells of *E.coli*cells and lanes 2, 4, 6, 8, 10, 12, 14, 16 were extracted with ddH₂O as a negative control in DNA extraction. Note all samples have similar yields. Purity was also tested and was consistently between 1.9 and 2.0 (not shown).

Ordering Information

Cat. No	Product Description
A-5041	ExiProgen™
Cat. No	Related Product Description
Protein Synthesis kit for <i>ExiProgen</i> ™	
K-7300~2	ExiProgen™ EC Protein Synthesis Kit (16/32/96 reactions)
K-7310	ExiProgen™ EC-Maxi Protein Synthesis Kit, 8 reactions
K-7320	ExiProgen™ EC-Tagfree Protein Synthesis Kit, 8 reactions
K-7330	ExiProgen™ EC-Disulfide Protein Synthesis Kit, 8 reactions
Protein Purification	kit for <i>ExiProgen</i> ™
K-7220~1	ExiProgen™ His-tagged Protein Purification Kit (16/32 reactions)
K-7710	MagListo™ Protein G Kit
K-7720	MagListo™ Protein A Kit
K-7730	<i>MagListo™</i> Protein L Kit
KA-3001	ExiProgen™ Consumable SET, 16 reactions
K-7240	<i>ExiProgen™</i> Dialysis kit, 8 reactions
Nucleic Acid Extraction Kit for ExiProgen™	
K-3225	<i>ExiPrep™</i> Tissue Genomic DNA Kit
K-3200-CB	<i>ExiPrep™</i> Beef Genomic DNA Kit
K-3200-CR	<i>ExiPrep™</i> Rice Genomic DNA Kit
K-4211	<i>ExiPrep</i> ™ Plus Blood Genomic DNA Kit
K-4214	<i>ExiPrep™</i> Plus Bacteria Genomic DNA Kit
K-4215	<i>ExiPrep™</i> Plus Plant Genomic DNA Kit
K-4217	<i>ExiPrep</i> ™ Plus Seed Genomic DNA Kit
K-4241	<i>ExiPrep</i> ™ Plus Total RNA Kit
K-4244	<i>ExiPrep</i> ™ Plus Plant total RNA Kit
K-4271	<i>ExiPrep</i> ™ Plus Viral DNA/RNA Kit
Accessories	
A-5041-A	Accessories Set for <i>ExiProgen</i> ™ (A2, 3, 4, 5, 6, 7, 10)
A-5041-A1	Multi Puncher (option)
A-5041-A2	Setup Tray
A-5041-A3	Disposable Tip Rack
A-5041-A4	Elution Tube Rack
A-5041-A5	Reaction Block (For protein synthesis)
A-5041-A6	Waste Tray
A-5041-A7	Hole Puncher (6-hole)
A-5041-A9	AC Adapter for <i>ExiProten™</i> , <i>ExiPrep</i> ™16 DX
A-5041-A10	Contamination Shield
A-5050-A12	Protection Cover Seperation Tool

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