

PS Series

Pro Peptide Synthesizer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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Asynchronous Peptide Synthesizer

3386 Asynchronous 12-Channel Micro-scale Peptide Synthesizer. This system utilizes quantitative dispensing for both Amino Acids and Activation Reagents. It supports independent configuration of activation methods and deprotection methods per amino acid, allows customized coupling and deprotection times per residue, enables pre-activation or synchronous activation modes, and permits real-time addition/retrieval of peptide resin in each channel. Multi-user operation allows different operators to log in independently, each executing distinct synthesis protocols for separate peptide sequences. It is the optimal solution for (H)-throughput complex processes and micro-scale synthesis.

Technical Parameters:

- Reactor Volume: 10~50mL
- Scale: 0.01~0.6mmol
- Temperature Control: Warm Wind
- Mixing: Vortex oscillation and Nitrogen bubbling
- Amino Acid Positions: 28
- Amino Acid Bottles: 120/250mL
- Amino Acid Handling: Precision dispensing (accuracy: 0.1mL)
- Activation Reagents: 4, quantitative extraction (accuracy: 0.1mL)
- Other Solvents: 4~6, quantitative extraction (accuracy: 0.1mL)
- Solvent Tanks: 0.5L, 1L, 2L, 5L, 10L
- Power Supply: 110/220V, 50/60Hz
- Dimensions: 82cm (W) × 62cm (D) × 92cm (H)
- Weight: 75kg

Channels	6 or 12
Reactor (mL)	25/50
Amino Acid Positions	28
Activator Positions	4
Solvent Positions	4~7
Dimensions (cm)	82×62×92



3319- Pro Peptide Synthesizer

Pro features a 180 degree "Up-Down" mixing system with zero dead angles. Mixing speed is steplessly adjustable, with quantitative amino acid dispensing and precision-activated reagent extraction (accuracy: ± 0.1 mL). It is the optimal equipment for process optimization and validation in solid-phase peptide synthesis (SPPS).

Technical Parameters:

- Reactor Volume: 25~250mL
- Scale: 0.1~3mmol
- Amino Acid Positions: 8 or 16
- Amino Acid Bottles: 10~100ml
- Solvent Positions: 7
- Solvent Tanks: 0.5L, 1L, 2L, 5L, 10L
- Temperature Control: Warm Wind, Water Bath
- Mixing: 180 degree "Up-Down", Stepless speed adjustment
- Power Supply: 110 / 220V, 50 / 60Hz
- Dimensions: 60 cm (W) \times 60 cm (D) \times 72 cm (H)
- Weight: 68 kg

Channels	1	
Reactor (mL)	25 / 50	50 / 100 / 250
Amino Acid Positions	8 or 16	8 or 16
Solvent Positions	7	7
Dimensions (cm)	60 \times 60 \times 72	60 \times 60 \times 72



3431- Multi-Channel Peptide Cleavage Equipment:

3431 Research Peptide Cleavage System. This instrument simultaneously processes cleavage, concentration and precipitation for 6 sets of peptide-resins. Cleavage reagents and precipitation solvents are transferred with quantitative precision (accuracy: 0.1mL), significantly enhancing cleavage efficiency.

Technical Parameters:

- Scale: 0.1~10mmol
- Reactor: 10~500mL
- Cleavage Reagent position: 1, quantitative extraction (accuracy: 0.1mL)
- Precipitation Solvent Port: 1, quantitative extraction (accuracy: 0.1mL)
- Cleavage Reagent Tank: 5L × 1 (PP material)
- Precipitation Solvent Tank: 5L × 1 (glass material)
- Mixing: Magnetic stirring
- Power Supply: 110/220V, 50/60Hz
- Dimensions: 45cm (W) × 45cm (D) × 66cm (H)
- Weight: 30kg

Channels	0
Reactor (mL)	10~500
Cleavage Solution Site	1
N Purging Positions	1
Precipitation Solvent Positiont	1
Dimensions (cm)	45×45×66



3386 - Microwave Peptide Synthesizer

Microwave Peptide Synthesizer. This fully automated system utilizes microwave energy to accelerate and optimize solid-phase peptide synthesis. Compared to traditional water bath or convection heating, microwave irradiation significantly enhances reaction rates for critical steps such as amino acid coupling and deprotection, reducing required times to 1/30~ 1/10 of conventional methods. It typically improves product purity and reduces side reactions, though Cysteine, Histidine, and Aspartic acid may undergo racemization under microwave conditions. This instrument is essential for modern peptide drug development, biochemical research, and materials science, particularly for synthesizing challenging peptides.

Technical Parameters:

- Channels: 1 or 12
- Reactor Volume: 30/120 mL
- Scale: 0.1~1.5 mmol
- Synthesis Sequence: Sequential synthesis per peptide chain
- Temperature Control: Microwave
- Amino Acid Positions: 28
- Amino Acid Bottles: 25~100 mL
- Activation Reagents: 4 , quantitative extraction (accuracy: 0.1 mL)
- Activator Bottles: 50 mL / 100 mL
- Solvent Positions: 4~7
- Solvent Tanks: 0.5L, 1L, 2L, 10L
- Power Supply: 110/220 V, 50/60 Hz
- Dimensions: 77.5 cm (W) × 55 cm (D) × 84 cm (H)
- Weight: 75 kg

Channels	1 or 12
Reactor (mL)	30/120
Amino Acid Positions	28
Activator Positions	4
Solvent Positions	4~7
Dimensions (cm)	77.5×55×84



3286 - Asynchronous Peptide Synthesizer

It adopts a quantitative amino acid dispensing mode and precision-activated reagent extraction modules. It supports independent settings of activation methods and deprotection methods for each amino acid, allows different coupling times and deprotection times per amino acid, enables pre-activation or synchronous activation, and permits real-time addition / retrieval of peptide resin in each channel. The system supports multi-user operation, allowing different operators to log in independently at different times, each using dedicated synthesis protocols for distinct peptide sequences. It is the optimal choice for larger-scale syntheses (e.g., 1–5g impurity profile samples).

Technical Parameters:

- Reactor Volume: 25~500mL
- Scale: 0.05~10mmol
- Temperature Control: Warm Wind
- Mixing : 180 degree"Up-Down" , Nitrogen bubbling
- Amino Acid Positions: 24
- Amino Acid Bottles: 15~100mL
- Amino Acid Quantification: Quantitative dissolution with complete transfer
- Activation Reagents: 4, quantitative extraction (accuracy: 0.1mL)
- Other Solvents: 4 , quantitative extraction (accuracy: 1mL)
- Solvent Tanks: 0.5L, 1L, 2L, 5L, 10L
- Power Supply: 110 / 220V, 50 / 60Hz
- Dimensions: 90cm (W) × 62cm (D) × 82cm (H)
- Weight: 87kg

Channels	3/6		
Reactor (mL)	25/50	100/200	200/500
Amino Acid Positions	24		
Solvent Positions	8		
Dimensions (cm)	90×62×82		



3486 - Pro Pilot Peptide Synthesize

3486 Pro Pilot-scale Automated Peptide Synthesizer. This system supports pre-activation and synchronous activation modes, with quantitative amino acid weighing and configuration, and precision extraction of activation reagents (accuracy: 1mL). Users can freely interchange reactors of varying specifications, making it a fully automated solution for pilot-scale solid-phase peptide synthesis.

Technical Parameters:

- Scale: 2~60mmol
- Amino Acid Positions: 6/8
- Amino Acid Bottles: 0.25~1L
- Solvent Positions: 5 or 7
- Solvent Tanks: 10L, 20L, 50L
- Mixing: 180 degree"Up-Down" mechanical mixing , Stepless speed adjustment
- Power Supply: 110/220V, 50/60Hz
- Weight: 68kg / 110kg

Channels	1	
Reactor (mL)	0.5/1/2	1/2/5
Amino Acid Positions	6	
Amino Acid Bottles(L)	0.25 or 0.5	0.5 Or 1
Solvent Positions	5 or 7	5 or 7
Dimensions (cm)	70×60×75	85×85×90



3586 - Pro Larger-Scale Peptide Synthesizer

3586 Pro Production-scale Automated Peptide Synthesizer. This system supports pre-activation and synchronous activation modes, performs quantitative amino acid weighing and dissolution with complete transfer, and enables precision extraction of activation reagents (accuracy: 5mL). Users can freely interchange reactors of varying specifications. Direct recycling of cleaning solvents achieves 40% savings, making it an automated solution for production-scale peptide synthesis.

Technical Parameters:

- Reactor: 2~30L
- Scale: 8~360 mmol
- Mixing: 180 degree "Up-Down" , mechanical mixing
- Temperature Control: Water bath
- Amino Acid Positions: 4
- Amino Acid Bottles: 2L or 5L
- Solvent Positions: 5
- Cleaning Positions : 2
- Solvent Tanks: 50L, 100L, 200L
- Stirring Speed: 0~30 rpm
- Power Supply: 110/220V, 50/60Hz
- Dimensions: 92cm (W) × 85cm (D) × 165cm (H)
- Weight: 330kg

Channels	1	
Reactor (mL)	2/10	5/30
Amino Acid Positions	4	2
Amino Acid Bottles(L)	2	5
Solvent Positions	5	5
Dimensions (cm)	92×85×165	



3686 - Industrial Grade Peptide Synthesizer

Customizable Peptide Synthesizer. Featuring dual- jacketed temperature- controlled reactors with viewports — including synthesis, amino acid activation, and piperidine buffering vessels— this system provides real-time monitoring and alarm functions for pressure, internal solvent temperature, and stirring speed. All solvents undergo quantitative transfer via metering pumps, with vessel temperature control ranging from -20°C to 50°C.

Technical Parameters:

- Reactor Vessel: 20~2000L, 304 stainless steel lined with 316L stainless steel
- Synthesis Scale: ≥ 0.3 mol
- Solvent Positions: ≤ 9
- Mixing: Mechanical stirring
- Amino Acid Activation Vessel: 304 stainless steel lined with 316L stainless steel
- Piperidine Buffer Vessel: 304 stainless steel lined with 316L stainless steel
- Explosion-Proof Rating: Exia IIC T4 GB
- Power Supply: 220/380V

Channels	1			
Reactor (mL)	20/50	50/100	150/300	300/500
Amino Acid Positions	≤ 9			
Solvent Positions	1			
Dimensions (cm)	1			



Industrial Grade Peptide Cleavage System

Customizable Peptide Cleavage System adopts a modular three-vessel system (cleavage, concentration, precipitation). All vessels feature dual - jacketed temperature control with viewports. Real- time monitoring/alarms for pressure, internal solvent temperature, and agitation speed. Solvents are quantitatively transferred via metering pumps, with vessel temperature control ranging from -20°C to 50°C.

Technical Parameters:

- Cleavage Scale: 1.8~3.6 mol
- Cleavage Vessel : 316L stainless steel lined with Hastelloy alloy or sprayed with coating
- Concentration Vessel: 316L stainless steel internally sprayed with coating
- Precipitation Vessel: 316L stainless steel internally sprayed with coating
- Mixing: Mechanical stirring
- Power Supply: 220/380V
- Explosion-Proof Rating: Exia IIC T4 GB

Channels	1
Cracking Kettle (L)	20~250
Solvent Positions	≤5
Concentration Kettle)	1
Sedimentation Kettle	1

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

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Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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GCMS



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