

PepAxis-Nova 5 Peptide Synthesizer Product Catalog



PepAxis–Nova 5 R&D Microwave Peptide Synthesizer



PepAxis–Nova 5

Number of Channels: 1/12

Reactor Volume: 30/120 mL

Amino Acid Positions: 28

Synthesis Scale: 0.1–1.5 mmol

Dimensions (W × D × H): 82 cm × 82 cm × 90 cm

Nova 5 (formerly 386 MW) is a fully automated microwave peptide synthesizer based on microwave-assisted solid-phase peptide synthesis (MW-SPPS) technology. By precisely directing microwave energy into the reaction system, it achieves highly efficient acceleration and optimization of peptide synthesis. Compared with conventional water bath or hot air heating methods, this system provides: Rapid temperature ramping, Uniform thermal field distribution, Precise temperature control, Significantly reduced energy consumption. The overall synthesis cycle can be shortened by more than 50%. For critical steps such as amino acid coupling and deprotection, reaction times can be reduced to 1/30–1/10 of conventional methods, greatly improving synthesis efficiency. The system is equipped with a fully automated control module, supporting precise parameter settings and comprehensive data recording, ensuring stable operation and good reproducibility. Nova 5 is suitable for peptide drug R&D, biochemical research, and related material preparation fields, providing a reliable tool for efficient, energy-saving, and green synthesis of difficult sequences.

PepAxis–Nova 5 Peptide Synthesizer

Technical Specifications

Temperature control method: Microwave, plug-in thermostat

Synthesis order: Synthesize in sequence

Number of amino acids: 28

Amino acid bottle: 125 mL

Activating reagent: 4-site, 125/250 mL bottles

Other solvents: 4–6 stations, with solvent tanks in sizes such as 0.5 L, 1 L, 2 L, 5 L, and 10 L

Precise Dosing: Quantitative dispensing with an accuracy of 0.1 mL

Mixing mode: Nitrogen bubbling

Weight: 75 kg

Power supply: 110/220 V, 50/60 Hz

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