

APEX 396™

Automated Multiple Peptide Synthesizer



- Prepare 1 - 96, 1 - 192, 1- 384 Peptides Simultaneously
- Precise Delivery of Amino Acids and Reagents Using Syringe
- Fast Cycle Time Synthesizing 96 Peptides with High-Quality of Crude Peptide
- Heating and Cooling Capability
- Prepare Peptides on Scales from 1 mg - Grams
- Utilize Optional Reactor Assemblies with Larger Reactor Volumes
- Perform Unlimited Chemistry with any type of Protocol, such as Peptide, PNA, DNA, Sugar Chemistry, or any type of Organic Chemistry



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A fully enclosed work area contains and controls fumes and any unpleasant odors.



The Apex 396 is the established market leader in multiple and single peptide synthesizers. This instrument is ideal for producing thousands of any type of peptide and protein fragments, alanine scans, epitope mapping, peptide parallel libraries, DNA and PNA. Synthesis scales range from 1 mg up to grams quantity.

QUALITY

Due to the unique design of the Teflon® reactor block, the resin stays at the bottom of the reactor, allowing it to stay in full contact with the reaction solution. Because of this, the resin does not stick to the sides of the reactor, thus resulting in higher yields of complete peptides with no deletion of impurities due to the reactor.

Vacuum or nitrogen-assisted bottom filtration quickly and thoroughly empties all of the reactors simultaneously. This process, in combination with fast delivery of solvents and reagents, minimizes the cycle time of the peptide synthesis. The fast and efficient washing of the resin removes all impurities. The features of the Apex 396 that allows for low, ambient or high temperature with maximum flexibility in the software make it the obvious choice for automated parallel synthesis, or any type of organic or peptide chemistry.

FLEXIBILITY

The Apex 396 has the flexibility and capacity to produce a single peptide, a few peptides or up to 96, 192, or 384 peptides simultaneously. The dual robotic arms accurately and precisely transfer reagents between any two points on the work table. The flexibility of the indexed tabletop allows for any shape, size or placement of containers. The Apex 396 is flexible enough for any type of chemistry, including preactivation of amino acids. The Apex 396 is adaptable for the use of different reactor sizes.

The easy-to-use Windows® software enables the chemist to readily develop protocols for most types of chemistry as standard on the Apex 396.

Options in reactor style and configuration, the size and number of monomer vials in the monomer rack, and the size

and number of reagent containers provide additional flexibility.

MIXING

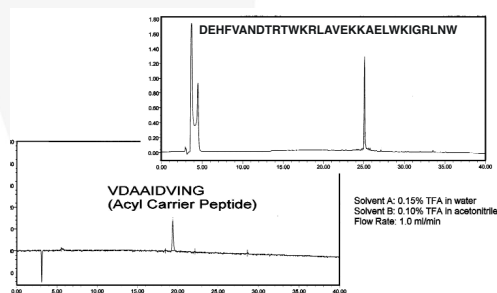
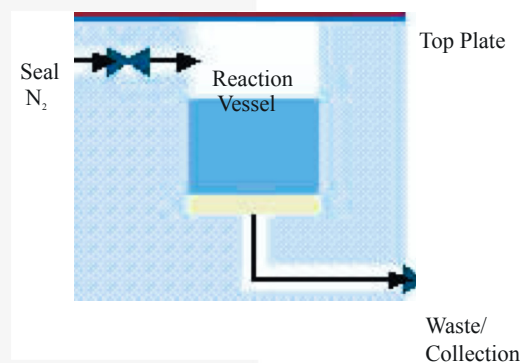
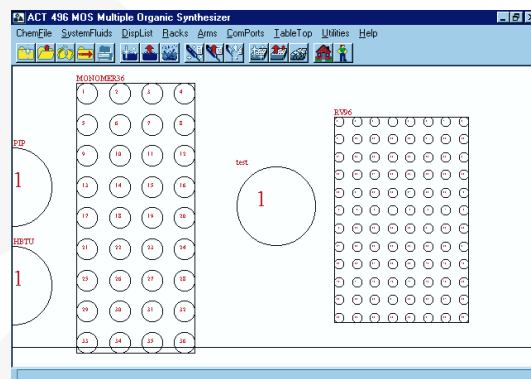
Gentle but efficient vortex mixing thoroughly mixes resin and reagents while preserving the integrity of the resin beads. Vortex mixing provides highly consistent and sustainable reactions and ensures consistent and reliable production of high quality peptides and proteins.

CONVENIENCE

The cleavage block provides vials, a small beaker, micro titer plates, or a test tube containing ethyl ether used to collect all 96 peptides individually for their final cleavage. Automatic cleavage of final peptide products into vials or micro titer plates. The speed and flexibility of the robotic arms, combined with the indexed tabletop, allow for development of innovative new methodologies. The multi-probe fast delivery system dramatically reduces the time required for dispensing reagents or solvents to the entire reactor. As a result, fast coupling cycle and the time the resin is in contact with reactants is similar between the first well and the 96th well, which produces uniform results across the entire reactor. For example, the six or 8 probes can wash an entire 96-well reactor within a minute.

Reactors are available in two styles: Classic and Ares™. Classic reactor blocks perform reactions at ambient temperature or elevated temperature. Classic block with a top plate keeps the reactor sealed at all times to maintain a continuous inert atmosphere throughout the entire synthesis sequence. In the Ares™ reactor block, each well is sealed and completely isolated to prevent any possibility of cross-contamination. In specially equipped Apex 396™ synthesizers, the reactor block can heat reactions above the boiling point of the solvent without significant loss of solvent.

All reactor blocks are formed from chemically resistant Teflon®, and each style reactor features nitrogen-assisted bottom filtration to quickly and thoroughly empty the reactor while maintaining an inert atmosphere.



SPECIFICATIONS

Width: 33"(84cm)

Depth: 29"(74cm)

Height: 35.5"(90cm)

Weight: 300lbs(136kg)

APEX 396™

Spirit of Innovation™

Proven Quality

Flexible

Reliable



Over 35 years experience
in providing all of your
peptide synthesis needs.



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