

Instrument Specifications

Scale	0.05 – 2.0 mmol
Chemistry	Fmoc or t-Boc
	Dissolve dry amino acids or use pre dissolved
Activation method	Pre-activation or in situ, user selectable. HBTU, HCTU, DIC, PyBop etc
Amino acid vessels	60 of 15 mL or 30 of 50 mL arranged in a carousel so no limit
Reaction vessel sizes	10 mL or 40mL
Reagent/solvent bottles	9, range from 250 mL to 19 litres
Waste containers	2 of 10 litres each
Mixing system	Over centre mixing with variable speed and amplitude
Inert atmosphere	100% throughout the system
Fluid measurement	Fill loops for calibration free measurement of reagents
	Timed delivery for washing solvents
Power	220/240 V, 50 Hz or 110/120 V, 60 Hz
Safety	CE marked, system enclosed with door interlock
Ventilation	Designed for bench top use with extractor attached
Logfile	Printable logfile for each synthesis run
Software	User friendly interface, pre-written protocols or user defines own
Controller	Desktop PC
Temperature	Ambient to + 70 °C
Dimensions	Width 84 cm (33"), depth 60 cm (23"), height 70 cm (28")

Technical Support

Activotec has unsurpassed experience in peptide synthesis chemistry and automation, the Activo-P11 has been developed and used with the in-house custom peptide synthesis team. Activotec is totally committed to supporting its customers worldwide and to further developing products for peptide synthesis. User input into the development of products is actively encouraged.

- Fast reliable service engineers and application chemists
- Service contract options are available to suit your requirements
- Peptide chemists are available to help with instrument application and peptide chemistry if required
- Training is provided on site or in Activotec's facility

Activotec is a supplier of state-of-the-art synthesis technology providing chemists with valuable research and development tools.

If you would like further details of the Activo-P11 synthesizer or any of Activotec's range of synthesis instruments or services please contact us below.



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Activotec

ACTIVO-P11

Automated Peptide Synthesizer

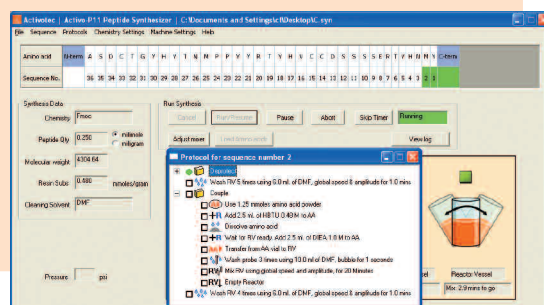


Key Features

- High quality peptides
- Any scale from 0.05 mmol to 2.0 mmol
- Fast cycle times
- Optional heated reactor for long or difficult sequences
- Easy to use; define own protocols or use the peptide wizard software
- Performs any Fmoc or t-Boc chemistries
- Safe to use, instrument is totally enclosed
- Fully automatic with no limit to number of amino acids
- Disposable reactors and amino acid containers
- Uses commercially available resins and reagents

Ease of Use

- Very easy to use software; import the sequence, fill in quantity and resin and press run
- Software generated worksheet tells the user what to prepare
- Free choice of chemistry, present and future
- Unattended operation for full length of the synthesis
- Disposable reactors and amino acid containers
- 60 amino acid containers, no limit to how many can be added
- Enclosed cabinet for safe bench top use
- Easy cleave system P12 direct from the disposable reactor



User friendly software

High Quality Peptide

- Inert atmosphere throughout
- Precise and fast reagent delivery and washing
- Efficient inversion mixing
- Bottom filtration from disposable reactors
- Fresh amino acids in powder
- Pre-activation vessel
- Multi-tasking increases coupling efficiency and reduces time

Sequence: FKRRWQWRMKLGAPSITCVRRAF
 Scale: 0.1 mmol
 Synthesis: conventional room temperature
 Resin: Wang Resin, 0.66 mmol/g (Novabiochem)
 Single coupling HBTU/DIEA in DMF,
 3 eq. amino acids and 2.9 eq. HBTU
 Cleavage: 95% TFA, 2.5% TIS and 2.5% H₂O

Acyl Carrier Peptide (ACP)
 Sequence: VDAAIDVING
 Scale: 0.15 mmol
 Synthesis: conventional room temperature
 Resin: Fmoc-Gly-Wang, 0.85 mmol/g (Novabiochem)
 Single coupling 20 mins HBTU/DIEA in DMF,
 4 eq. amino acids and HBTU
 Cleavage: 95% TFA, 2.5% TIS and 2.5% H₂O

Sequence: GRKKRRQRRRGYKCC
 Scale: 0.16 mmol
 Synthesis: conventional room temperature
 Resin: Rink MBHA, 0.64 mmol/g
 Double coupling PyBOP/DIEA in DMF,
 3 eq. amino acids and 2.8 eq. PyBOP
 Cleavage: 94% TFA, 2.5% EDT, 2.5% H₂O
 and 1% TIS
 Crude purity 94%

Chemistry

- Fmoc or t-Boc
- In situ or preactivation
- Coupling reagents HBTU, HCTU, HATU, TBTU, PyBOP, DCC etc
- Use any resins; polystyrene or PEG
- Use any protocols
- Synthesize any length peptides

Reagents

- 9 reagent/solvent lines
- 250 mL to 19 L options
- Allows for unattended operation
- Accurate addition via fill loop or timed delivery
- No need for calibration
- Separate fluidics for piperidine/TFA



Disposable reactors, no need for cleaning



Easy access to reactor for sampling



Heated reactor
 • Ambient to +70 °C
 • Cooling
 • Increased coupling efficiency



Fresh amino acids and pre-activation vessel



Efficient mixing of the reactor



Activo-P12 Cleavage Device

- Cleave direct from Activotec disposable reactors
- No need to transfer resin around
- Inert atmosphere
- Variable over centre mixing
- Small footprint to fit into any fume cupboard

