

Tribute[®] UV-IR

Benchtop Peptide Synthesizer



www.gyrosproteintechnologies.com

GYROS PROTEIN
Technologies

Tribute UV-IR Peptide Synthesizer

- Compact Benchtop Model with Touchscreen
- Fast, Efficient Couplings
- High Quality Crude Peptides
- Extremely Flexible
- Automated Cleavage



2 INDEPENDENT REACTION VESSEL PAIRS

- 0.005 - 2.0 mmol scale
- Flexible deliveries and washing (Top-down delivery or bottom-up delivery)
- Adjustable vortex and N₂ mixing
- Chemically-resistant cover with safety interlock

REAL TIME UV MONITORING

- Monitors reaction in vessel and not the waste stream
- Extends deprotection time when needed
- Synthesize the right peptide the first time
- Increases yield and purity
- Reduces solvent consumption

IR HEATING

- Vortex mixing ensures no hot spots
- Test the same protocol with and without heat
- Heat to 2 temperatures
- Optimize process variables
- Precise temperature control

AMINO ACID RACK

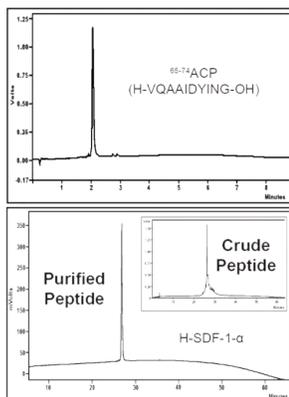
- 101 unattended couplings
- Prepacked amino acid vials available
- Barcode scanning for amino acid vials
- Liquid or solid deliveries
- Ideal for long peptide synthesis

5 SOLVENT POSITIONS

- Automated cleaning routines
- Frugal solvent usage
- Independent bottle pressurization

High Quality Performance

HIGH CRUDE PURITY PEPTIDES

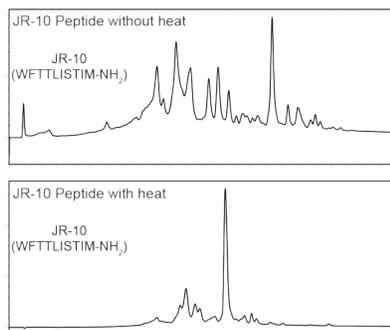


From simple
to complex
peptides

DESIGNED TO HANDLE SPECIAL CHEMISTRIES

- Deliver any solvent to AA vial to dissolve solids
- Dissolve solids in 1 to 2 aliquots for maximum dissolution
- Deliver liquid reagents from AA vial directly to reaction vessel without dilution
- Empty vials and custom barcode labels available for specialty reagents

IMPROVE PEPTIDE PURITY WITH HEAT



In situ activation can be accomplished by delivering amino acid to the reaction vessel first, followed by activator

Pre-Activation: Amino acid is pre-activated in the vial by the addition of base or other reagent solutions

Innovative Features

AUTOMATED CYCLE-DEPENDENT VOLUME INCREMENTATION

- Tribute UV-IR increases its fluid delivery volumes as the peptide grows and the resin volume increases
- Input volume of your choice in your program file
- Tribute increases delivery volumes by a set amount each cycle

SOFTWARE FEATURES

- Select sequence(s) and assign a program for each cycle
- Monitor progress of all reactions
- Customizable amino acid tables
- Good Laboratory Practice data recording, diagnostics and error reporting
- Flexible restart options for interrupted syntheses

BARCODE SCANNING AND AMINO ACID LOADING VIALS



Simply Scan



Load your Amino Acid



Advance the Amino Acid Rack



AUTOMATED CLEAVAGE

- Customizable cleavage programs
- TFA resistant vessels
- Automated cleaning post cleavage
- 50 mL collection tube capacity
- Adjustable start times

USER WORKSTATION UTILITY

- Program and sequence files can be created on the Tribute UV-IR or an external computer using the User Workstation Utility
- Transfer files to and from the Tribute via a portable USB drive
- Calculate coupling difficulty for any peptide sequence

SAFE-RESPONSE FEATURE

Keep your reactions safe during unexpected interruptions as the Tribute UV-IR will:

- Drain active reaction vessels if needed
- Wash resin with solvent of your choice
- Prevent side reactions and undesired byproducts

High Quality Chemicals, Amino Acids & Accessories

MAXIMIZE YOUR PERFORMANCE

Reliable Chemistries:

- Amino Acids, resins, activators, solvents and more:
 - Guaranteed weight, purity and quantity
 - All of our chemicals are 100% QC tested
 - 100% fully synthetic amino acids
 - Available in custom pack sizes

Total Solution Delivering Uncompromising Purity:

- Instrument Performance
 - Tribute peptide synthesizer is optimized on our high quality chemistry
 - Minimize down time caused by clogging resulting from impure and unstable reagents
- Better Synthesis Results
 - Synthesize your peptide right the first time
 - Consistent quality reduces synthesis variability
 - Better yield and purity with high quality reagents
- Rapid and Reliable Setup
 - Start syntheses quickly with convenient, affordable, pre-weighed chemicals

STRENGTHEN YOUR TRIBUTE UV / IR

- Tribute Start-Up Kits
 - Out-of-the box peptide synthesis reagents
 - Thirty 10 mL disposable reaction vessels, two 45 mL disposable reaction vessels
 - Pre-packed amino acids for test peptides
- Tribute Pre-Packed Vials
 - Ready-to-use amino acid vials measured and QC tested
 - Equimolar quantities of high quality amino acid and activator in pre-packed vials for the Tribute
 - Sizes available in 0.5 mmol, 1.5 mmol & 2.5 mmol quantities
- Bulk Packaging
 - 25 gram, 100 gram, kilogram and custom lots available
 - Pseudoproline dipeptides available in bulk quantities
 - Deprotect and base solutions, pre-mixed and ready to run
 - TFA for cleaving and premium wash solvents available in various quantities

Visit www.gyrosproteintechnologies.com and our webshop for all your peptide synthesis needs - amino acids, resins, coupling agents, solvents and more.



Tribute UV/IR Specifications

Number of reaction vessels	2
Synthesis scale range	0.005 to 2.0 mmol
Reaction vessel volume	Plastic, disposable - 10 mL, 45 mL sizes Borosilicate glass - 10 mL, 40 mL
Number of solvent positions/sizes	2 solvents, 4 L capacity 3 user-defined solvent positions, 1 L capacities
Number of amino acid positions	101 amino acid vials, 11 mL capacity Pre-packaged vials available in 0.5 mmol, 1.5 mmol, 2.5 mmol scales
Chemistries supported	Fmoc, t-Boc, organic, peptoid, cyclic, branched, PNA
Activation	DIC/HOBt, DIC/OxymaPure, HBTU, HATU, HCTU, TBTU, PyBOP and others
Throughput	User defined
Fluid measurement technique	Fixed loop measurement with optical sensors
Fluid transfer method	Positive pressure with nitrogen Top-down or bottom-up deliveries and washing
Agitation method	Nitrogen bubbling and vortex mixing can be adjustable and programmable
Cleavage	Automatic, programmable (for Fmoc chemistry only)
Waste container	(1) 20 L D.O.T rated container with over-flow sensor in cap
Control interface	Proprietary Tribute control software, internal CPU, 10" full-color, chemical-resistant VGA Touchscreen, printer included
Reporting	Real-time log file updated for every instrument function, print to external file, pull up on screen or printer
Power	115 V/60 Hz or 230 V/50 Hz
Dimensions	45"W, 25"D, 31.5"H (114 cm W, 63.5 cm D, 80 cm H)
Weight	Approximately 100 lbs. (45 kg)
Warranty	One year, parts and labor
Optional	E-mail-Text Message Status Reporting User Workstation Utility Infrared (IR) Heating UV monitoring

ORDERING INFORMATION

Catalog #	Description
TPS-110	Tribute Peptide Synthesizer, 115 V
TPS-230	Tribute Peptide Synthesizer, 230 V

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