

Required Accessory

Aurora Rapid™ Housing

for use with AUR3-50150C18 and AUR3-5075C18

Required for Aurora Rapid columns in a Thermo Scientific Nanospray Flex source. The unit houses the column and connects the source high-voltage to the nanoZero® fitting.

(Part No: 5CMNFSH1)



Tech Specs

Column format	Analytical column
Column type	Reversed-phase
For use with	UHPLC
Length	5 cm
Inner Diameter	75 µm
Stationary phase	C18
Pore size	120 Å
Pressure	>1700 bar
Temp. limit	60°C
Particle size	1.7 µm
pH stability	1-8

(Part No. AUR3-5075C18 / AUR3-5075C18-CSI)

ionopticks

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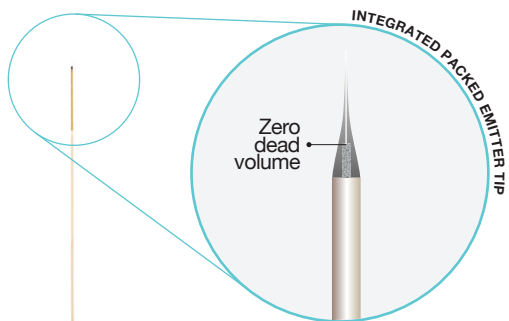
Aurora
GENERATION **3**

Aurora™
RAPID
75

5 cm nanoflow UHPLC packed emitter column.

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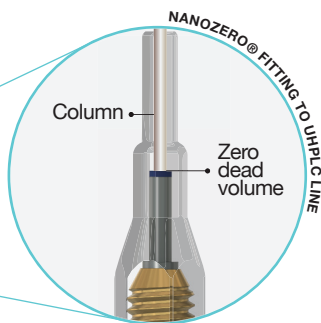


Maximal throughput for single-cell and low-input samples.

Aurora Rapid75™ delivers high-throughput analysis of single cells, achieving extreme sensitivity using short gradients. Identify more than 1300 proteins from 250 pg of sample, 80 times per day on an Evosep One and timsTOF SCP.

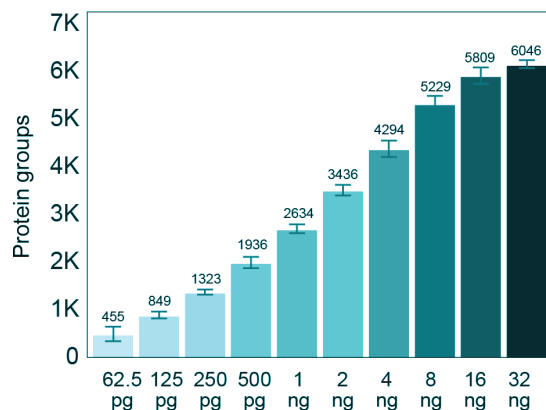
Product Benefits

- + High throughput
- + Nanoflow
- + Sensitivity
- + Analyse more cells in less time



Get more, from less.

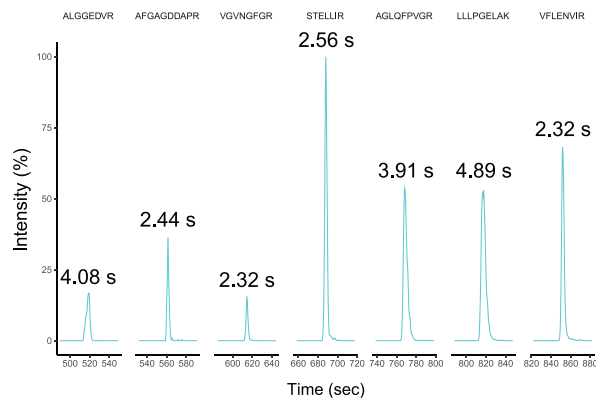
Identify more than 1300 proteins from 250 pg of sample, 80 times per day on an Evosep One and timsTOF SCP.



A dilution series of a HeLa tryptic digest was separated on an Aurora Rapid75™ column using an Evosep One and Bruker timsTOF SCP (dia-PASEF) using an 80 samples per day method (currently under development), n = 6. Data courtesy of Dr Christoph Krisp (Bruker), Dorte Bekker-Jensen and Dr Nicolai Bache (Evosep).

Lightning-fast peaks.

Maximum peak capacity and reproducibility for low sample inputs using short gradients.



A HeLa tryptic digest (1 ng) was separated on an Aurora Rapid75™ column using a Thermo Scientific Vanquish Neo UHPLC and TSQ Quantis across a 15 min sample gradient at 100 nL/min. The extracted ion chromatograms for 7 selected peptides from the analysis are shown. The average Full Width at Half Maximum (FWHM, seconds) for each peptide across 30 runs is shown above each peak.

Aurora Generation 3

UHPLC packed emitter columns

Delivering unrivalled coverage, throughput, sensitivity and reproducibility, Generation 3 Aurora Series™ columns embody all of the strengths of previous generations, augmented by three years of intensive research, development and industry collaboration.

Designed by researchers, for researchers.

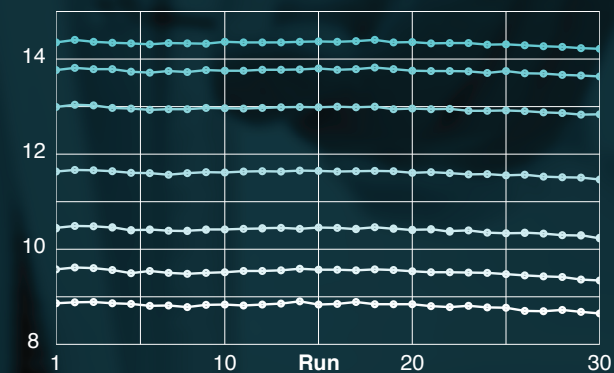
We've listened. We've collaborated.

Throughout the development of the Generation 3 Aurora Series™ we've included a range of improvements to minimise experiment disruption and increase performance.

- + Integrated packed emitter
- + True-zero pre-column dead volume
- + 'QuickFit' plug and play technology
- + High-pressure fitting holds >1700 bar

Unrivalled retention time stability.

Robust performance across multiple samples.



The retention times of the 7 peptides analysed in the adjacent figure were plotted across 30 runs to demonstrate retention time stability for the Aurora Rapid75™ column.