

Finland-Helsinki: Mass spectrometer
OJ S 21/2021 01/02/2021
Contract award notice
Supplies

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: University of Helsinki
National registration number: 0313471-7
Postal address: Yliopistonkatu 3, Helsingin yliopisto
Town: Helsinki
NUTS code: FI1B Helsinki-Uusimaa
Postal code: 00014
Country: Finland
E-mail: hankinnat@helsinki.fi
Internet address(es):
Main address: <https://www.helsinki.fi/fi>

I.4. Type of the contracting authority

Body governed by public law

I.5. Main activity

Education

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

TimsTOF Pro System to Proteomics Unit

II.1.2. Main CPV code

38433100 Mass spectrometer

II.1.3. Type of contract

Supplies

II.1.4. Short description

Mass spectrometer for institute of biotechnology, HiLife. TimsTOF Pro system with a dual — TIMS analyzer optimized for high speed shotgun proteomics. The timsTOF has TIMS technology that allows PASEF, dia-PASEF and prm-PASEF acquisition methods.

II.1.6. Information about lots

This contract is divided into lots: no

II.1.7. Total value of the procurement

Value excluding VAT: 745 960,00 EUR

II.2. Description

II.2.3. Place of performance

NUTS code: FI1B Helsinki-Uusimaa

II.2.4. Description of the procurement

Direct purchase of mass spectrometer.

II.2.5. Award criteria

Quality criterion - Name: Laatu / Weighting: 50

Price - Weighting: 50

II.2.11. Information about options

Options: no

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
no

II.2.14. Additional information

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Award of a contract without prior publication of a call for competition in the Official Journal of the European Union in the cases listed below

- The works, supplies or services can be provided only by a particular economic operator for the following reason:
 - absence of competition for technical reasons

Explanation:

QTOF type with ion mobility separation. Ion mobility is a great extension to MS that delivers information about the three-dimensional structure of an ion and increases peak capacity and Confidence in compound characterization. Other needed features are:

- 1) The instrument can synchronize the quadrupole with the IMS elution time to allow for a high MS/MS acquisition speed, leading to an increased fragmentation depth and there must be algorithms for intelligent targeting of low-level precursors;
- 2) The MS instrument must be capable of real-time data acquisition a data processing, enabling a high spectrum repetition rate of >100Hz in MS/MS mode (including ion mobility separation and without sacrificing sensitivity) to obtain highest possible identification of both peptides and proteins, i.e. achieving high sequence coverage of the identified proteins;
- 3) Mass resolution 60 000 independent of MS or MS/MS sequencing speed;
- 4) Reproducibility of Collisional Cross Section (CCS) value determination <0.5 % RSD;
- 5) Pre-defined methods for DDA, DIA, PRM delivered, where both m/z and ion mobility are used for selectivity (i.e. window selection in DIA and PRM, and possibility to integrate various LC vendors into the instrument control software and the data-file format must be open architecture to enable easy input for various bioinformatics approaches in-house.

The timsTOF Pro system comes with a dual-TIMS (trapped ion mobility spectrometry) analyzer optimized for high-speed shotgun proteomics. Its unique geometry allows incoming ions to be accumulated in parallel in the first section, and for ions to be released dependent on their

mobility from the second section of the dual-TIMS analyzer. This results in nearly 100 % duty cycle, making this parallel accumulation serial fragmentation technique (PASEF) perfectly suited for nanoflow LC-MS analysis of enzymatically digested complex protein mixtures. The timsTOF Pro system provides unique technology for identification of peptides which is highly relevant for our research. The timsTOF Pro from Bruker is the only instrument in the market that has TIMS technology allowing PASEF, dia-PASEF and prm-PASEF acquisition methods, and has the above mentioned essential features.

IV.1.3. Information about a framework agreement or a dynamic purchasing system

IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: no

IV.2. Administrative information

IV.2.8. Information about termination of dynamic purchasing system

IV.2.9. Information about termination of call for competition in the form of a prior information notice

Section V: Award of contract

Title:

TimsTOF Pro System to Proteomics Unit

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract

11/12/2020

V.2.2. Information about tenders

Number of tenders received: 1

Number of tenders received from SMEs: 0

Number of tenders received from tenderers from other EU Member States: 0

Number of tenders received from tenderers from non-EU Member States: 0

Number of tenders received by electronic means: 0

The contract has been awarded to a group of economic operators: no

V.2.3. Name and address of the contractor

Official name: Bruker Nordic Ab

National registration number: 2872885-3

Town: Kista

NUTS code: SE Sverige

Country: Sweden

The contractor is an SME: no

V.2.4. Information on value of the contract/lot

Total value of the contract/lot: 745 960,00 EUR

V.2.5. Information about subcontracting

Section VI: Complementary information

VI.3. Additional information

VI.4. Procedures for review

VI.4.1. Review body

Official name: Markkinaoikeus

Postal address: Radanrakentajantie 5

Town: Helsinki

Postal code: 00520

Country: Finland

E-mail: markkinaoikeus@oikeus.fi

Telephone: +358 295643300

Internet address: <http://www.oikeus.fi/markkinaoikeus>

VI.5. Date of dispatch of this notice

27/01/2021