Planning

Nuclear magnetic resonance (NMR) probe

More titles:
Nuclear magnetic resonance (NMR) probe

University of Northumbria at Newcastle

F01: Prior information notice
Prior information only
Notice identifier: 2024/S 000-015796
Procurement identifiers (OCIDs): ocds-h6vhtk-0468bf, ocds-h6vhtk-0468c0
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Section I: Contracting authority

I.1) Name and addresses

University of Northumbria at Newcastle

Sutherland Building, College Street, Newcastle upon Tyne

Newcastle upon Tyne

NE1 8ST

Contact

Alex Lyubych

Email

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Telephone

+44 7936036553

Country

United Kingdom

Region code

UKC - North East (England)

Internet address(es)

Main address

https://www.northumbria.ac.uk

I.3) Communication

Additional information can be obtained from the above-mentioned address

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

Nuclear magnetic resonance (NMR) probe

Reference number

T23/0110

II.1.2) Main CPV code

- 33114000 - Spectroscopy devices

II.1.3) Type of contract

Supplies

II.1.4) Short description

The team is working on tunable and predictable small molecule light emitters from a fluorinated amine scaffolds project. Within this project, the team will build a structure-property relationship around two constrained amine scaffolds, with a particular focus on tuning their photoluminescent properties. This will involve the strategic incorporation of fluorine atoms, and the analysis of this small compound library will be supported by a Nuclear magnetic resonance (NMR) probe which enables simultaneous 1H and 19F decoupling of 13C NMR spectra. The probe will also support the characterisation of key intramolecular distances through the acquisition of 1H NOE spectra.

II.1.5) Estimated total value

Value excluding VAT: £40,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 33114000 - Spectroscopy devices

II.2.3) Place of performance

NUTS codes

- UKC - North East (England)

Main site or place of performance

NORTH EAST (ENGLAND)

II.2.4) Description of the procurement

The procurement involves acquiring a Nuclear Magnetic Resonance (NMR) multi-purpose probe for a research project focused on developing a family of light-emitting small molecules. The goal is to establish structure-property relationships between photophysical properties, intramolecular distances, and the identity of light-emitting chromophores. Equipment Supply: Nuclear Magnetic Resonance (NMR) multi-purpose probe capable of precise measurement of molecular distances and structural characterization.

II.2.14) Additional information

This project addresses the current limitations in designing small molecules with predictable light-emitting properties by enabling the precise control of molecular distances and chromophore identities. The inclusion of fluorine atoms in the chromophores will enhance emission wavelength tuning, crucial for developing viable biosensors.

II.3) Estimated date of publication of contract notice

30 May 2024

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II.2.4) Description of the procurement

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Section IV. Procedure

IV.1) Description

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

The procurement is covered by the Government Procurement Agreement: Yes

Section VI. Complementary information

VI.3) Additional information

To view this notice, please click here:

https://www.delta-esourcing.com/delta/viewNotice.html?noticeId=862164315

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