

Protein Chemistry Core

Location: BloodCenter of Wisconsin Blood Research Institute

Contact:

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[Learn more about the BloodCenter of Wisconsin Blood Research Institute's Protein Chemistry Core](#)

Overview

The Protein Chemistry Core Lab of the Blood Research Institute was established in 1988 and offers custom peptide synthesis and purification utilizing both natural and non-natural amino acids. Peptides are synthesized with Fmoc chemistry utilizing microwave-assisted solid phase synthesis. Modifications such as biotinylation, fluorescent labeling, conjugation to carrier proteins for anti-peptide antibody production, cyclization and incorporation of stable isotopes are routinely done. In addition, post translation modifications such as phosphorylation or peptoid synthesis are available.

The Protein Chemistry Core also maintains two chromatography units; an AKTA FPLC for low pressure protein purification utilizing ion exchange, size exclusion or affinity chromatography and an Agilent 1100 system with an autosampler and a fraction collector for high pressure protein analysis. An isoelectric focusing unit for 2-D gels is also available.

The Protein Chemistry Core Lab has been a member of the Association for Biomolecular Resource Facilities since 1995.

Equipment/Software	Accessibility
CEM Liberty1 Microwave assisted peptide synthesizer	Facility technicians use on behalf of investigators
Beckman System Gold with UV detector	Facility technicians use on behalf of investigators
Agilent 1100 HPLC with UV detector	Use is available only after training
AKTA FPLC	Use is available only after training
Bio-Rad Protean Isoelectric Focusing Unit	Use is available only after training

Hours:

- Core Instruments Monday - Friday 9:00 am-5:00 pm
- Instrument training Monday - Friday 9:00 am-5:00 pm
- After training, use is available 24 hours

Common users of the facility: BRI Investigators, some MCW faculty, a few UW-Milwaukee, Marquette and Concordia users.

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