

May 09, 2024

Fluorescence size exclusion chromatography (FSEC) of native nanodiscs

DOI

<https://dx.doi.org/10.17504/protocols.io.14egn676ml5d/v1>

Caroline Brown^{1,2,3}, Snehasish Ghosh^{1,2,3}, Kallol Gupta^{1,2,3}

¹Nanobiology Institute, Yale University, West Haven, CT, USA;

²Department of Cell Biology, Yale University School of Medicine, New Haven, CT, USA;

³Aligning Science Across Parkinson's (ASAP) Collaborative Research Network, Chevy Chase, MD, 20815



Caroline Brown

Yale University

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.14egn676ml5d/v1>

Protocol Citation: Caroline Brown, Snehasish Ghosh, Kallol Gupta 2024. Fluorescence size exclusion chromatography (FSEC) of native nanodiscs . **protocols.io** <https://dx.doi.org/10.17504/protocols.io.14egn676ml5d/v1>

License: This is an open access protocol distributed under the terms of the **[Creative Commons Attribution License](#)**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited



Protocol status: Working

We use this protocol and it's working

Created: May 04, 2024

Last Modified: May 09, 2024

Protocol Integer ID: 99251

Keywords: fluorescence size exclusion chromatography of native nanodisc, fluorescence size exclusion chromatography, native nanodisc, fsec, fluorescence, exclusion chromatography

Abstract

This is a protocol describing how to conduct Fluorescence size exclusion chromatography of native nanodiscs.

- 1 Conduct extraction into native nanodiscs following established protocols.
- 2 Inject 200uL native nanodiscs onto a Superose6 (10/300GL) column which is pre-equilibrated with TBS.
- 3 Perform separation at a flow rate of 0.5 mL/min and detect eluent with a Shimadzu fluorometer with excitation set to 488 nm and emission set to 509 nm.
- 4 Collect eluent for downstream analysis.