

Methods in Enzymology

VOLUME 463

GUIDE TO PROTEIN PURIFICATION, 2ND EDITION

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Since its publication nearly twenty years ago, *Guide to Protein Purification* has been guiding countless students and researchers through the purification, characterization, and handling of proteins and enzymes. This thoroughly revised and updated second edition continues that tradition, presenting cutting-edge and classic methods in a clear, easy-to-follow manner that enables both expert and novice scientists to successfully establish the techniques in their laboratories.

Key Features:

- Presents new and traditional methods that are reliable for the protein purifier in a single, vetted volume
- Gathers top global authors from industry, medicine, and research and across multiple disciplines including biochemistry, genetics, oncology, pharmacology, dermatology, and immunology
- Provides robust methods as well as an analysis of the advancements in the field that, for an individual investigator, can be complex and demanding process
- Includes a mix of never-before published chapters and fully updated chapters that appeared in the first edition, revised by their original authors whenever possible
- Gives important background on the field in the form of overview and retrospective chapters by eminent biochemists that go beyond technique and mechanical procedures

Volume 463 in the Methods in Enzymology Series

Cover figure: A model of HaloTag protein (blue) bound to one of the fluorescent ligands (chloroalkane segment shown in yellow and fluorescent dye shown in red). The HaloTag protein is a 34 kDa monomeric protein fusion tag evolved to covalently and rapidly bind chloroalkane ligands carrying a variety of functional moieties such as fluorescent dyes or solid surfaces, as depicted below the model. Depending on the selection of a ligand HaloTag fusion proteins can either be labeled or immobilized enabling multi-faceted biochemical characterization of proteins.



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