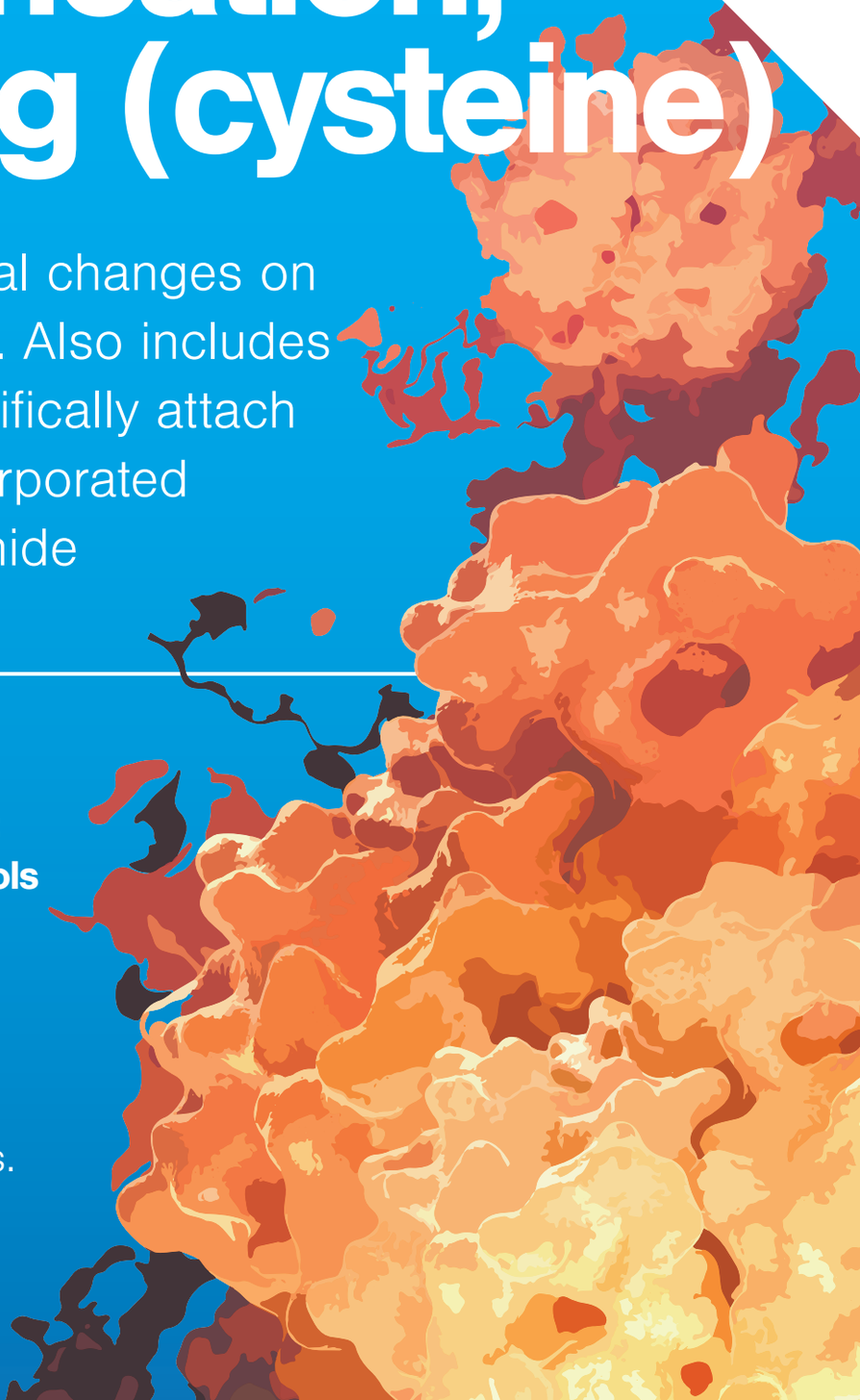
Customized protein design, purification, and tethering (cysteine)

Measure folding and conformational changes on your customized protein of interest. Also includes beads and DNA handles that specifically attach to your protein of interest with incorporated cysteines through cysteine–maleimide chemistry.



Scan me or use the link below to find the protocol:
store.lumicks.com/protocols

For research use only.

Protein Folding and Conformational Changes
Customized protein design, purification, and tethering (cysteine)

This batch was produced on

& works best within 6 months

Materials supplied:

- **Maleimide-modified oligonucleotides:** Dry pellet (not visible), 2 vials. Lyophilized oligonucleotides for protein labeling using maleimide–cysteine chemistry.

Store at **-20°C**

- **Biotinylated and digoxigenin-labeled DNA handles (529 bp):** 4 µl, 10 vials. Handles mix (50/50) with an overhang complementing the maleimide-modified oligonucleotides.

Store all materials at **-80°C**

- **TCEP (10 mM):** 5 µl, 2 vials | 10 mM. Reducing agent.

- **Customized protein:** 40 µl | 0.5 µg/µl (20 µM)

- **Streptavidin-coated silica beads (⌀ 1.0–1.4 µm):** 25 µl | 1% (w/v). Beads in PBS with 3 mM sodium azide, with a specific diameter _____ µm.

Store all materials at **+4°C**

- **Anti-digoxigenin-coated polystyrene beads (⌀ 0.7–0.9 µm):** 60 µl | 0.1% (w/v). Beads in PBS with 3 mM sodium azide, with a specific diameter _____ µm.