

Amine-Reactive Probes

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Detailed protocol is available online at www.lifetechnologies.com/manuals.

Storage

- Store at $\leq -20^{\circ}\text{C}$, desiccate
- Protect from light

Preparing the Reactive Dye Solution

Immediately before use, dissolve the amine-reactive compound in high-quality, anhydrous dimethylsulfoxide (DMSO) or dimethylformamide (DMF) at a final concentration of 10 mg/mL. Once reconstituted, use the reactive dye solution immediately.

Caution! Do not use DMSO with sulfonyl chlorides, because it reacts with them.

For research use only. Not for use in diagnostic procedures.

Quick Protocol

1. Dissolve ~10 mg of the protein in 1 mL of 0.1 M sodium bicarbonate buffer pH 8.3.
2. Dissolve the amine-reactive dye in DMSO or DMF at 10 mg/mL.
3. While stirring the protein solution, slowly add 50–100 μ L of the reactive dye solution from step 2.
4. Incubate the reaction for 1 hour at room temperature with continuous stirring.
5. Equilibrate a 10 \times 300 mm gel filtration column (Sephadex G-25 column or equivalent matrix) with PBS.
6. Separate the conjugate on the gel filtration column.
7. Store the conjugates under the same conditions used for the parent protein.

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