

EasyConj™ One-step conjugation protocol

| Material provided | Storage |
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| <ul style="list-style-type: none"> EasyConj™ quantum dots nanoparticles, 100 µL in a 1.8 mL tube. | <ul style="list-style-type: none"> Store at 2–8 °C. Do not freeze! Protect from light. |

| Material NOT provided |
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| <ul style="list-style-type: none"> Antibody solution at 1 mg/mL in a suitable buffer (minimum antibody concentration: 0.5 mg/mL). Borate Buffered Saline (10 mM, 8 g/L NaCl, pH ~8.4) is the recommended buffer. <i>Amine-containing buffers such as Tris are not suitable for this reaction.</i> Additional buffer (same as the one used to dissolve the antibody). (IF NEEDED) Centrifugal filter with a maximum MWCO of 50 kDa, such the Amicon® Ultra 0.5 mL (Merck Millipore). |

EasyConj™ conjugation procedure to conjugate 100 µg of antibody

1. Prepare the antibody solution. If the antibody solution contains azide or glycerol, remove them by centrifugal filtration. If the antibody concentration is higher than 1 mg/mL, dilute it with the same buffer to reach 1 mg/mL.
2. Dilute the EasyConj™ solution with 300 µL of Borate Buffered Saline.
3. Add 100 µL of the antibody solution (equivalent to 100 µg of antibody) to the tube containing the diluted EasyConj™ solution. The total volume should be approximately 500 µL.
4. Mix the solution gently for 30 minutes. The conjugate is then ready to use.
5. Store the EasyConj™-antibody conjugate at 2–8 °C, protected from light. Do not freeze! The conjugate should remain stable for at least 1 month.

NOTE: To conjugate a smaller amount of protein, take an aliquot of EasyConj™ solution and place it in a new tube. Maintain the 1:3:1 volume ratio of EasyConj™ solution, buffer, and antibody.