

Regenix Xenograft protocol



Regenix Xenograft is designed for patient-derived and cell line-derived xenograft (PDX and CDX) applications. Composed of various basement membrane proteins from normal tissues and featuring atelocollagen for biological safety, it offers easy sample preparation and injection. Regenix Xenograft ensures high cell retention, promoting rapid cell growth with a smooth, round shape, making it a reliable tool for consistent, high-quality research results.

Storage Instructions

- ⊙ Avoid storing Regenix on freezer doors or in frequently opened freezers.
- ⊙ After the initial thaw, aliquot Regenix into freezer-compatible tubes and store at -80°C . Minimize repeated freezing and thawing to maintain product quality.
- ⊙ Long-term storage after thawing is not recommended for optimal product integrity.
- ⊙ Frozen Regenix is stable for up to 2 years from the date of manufacture.

Thawing Instructions

- ⊙ Regenix begins to gel at temperatures above 10°C .
- ⊙ Thaw for at least 4 hours at 2°C to 8°C , ensuring the vial is fully surrounded by ice.
- ⊙ During thawing, keep the ice bucket covered and place it in a cold room or at the back of a refrigerator for consistent temperature control.

Xenograft Instructions for CDX/PDX Model Generation

⊙ Preparation of Regenix Xenograft

Thaw Regenix Xenograft and gently mix by slow pipetting. Due to its high viscosity, use a 200 μL pipette tip cut to a 1.5–2 mm opening to reduce bubble formation. If bubbles occur, centrifuge before use. Keep Regenix Xenograft at $4-8^{\circ}\text{C}$ during handling to prevent gelation above 10°C .

⊙ Cell Resuspension

Before adding Regenix Xenograft, carefully remove as much supernatant as possible from the prepared cell/tissue pellet. Then, add Regenix Xenograft and gently mix by slow pipetting to ensure uniform resuspension. Regenix Xenograft is a ready-to-use pre-gel solution; do not dilute, as this may interfere with proper hydrogel formation.

⊙ Preparation for Injection

Using a syringe that has been pre-chilled and fitted with a 25–29 gauge needle, carefully draw up the cold cell/tissue-Regenix Xenograft mixture.

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⊙ Injection

Inject the cell/tissue-Regenix Xenograft mixture subcutaneously into an anesthetized mouse. Insert the needle at a shallow angle to ensure the injection remains within the subcutaneous layer without penetrating muscle tissue, and slowly administer the entire volume.

If you have any questions, please contact
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