CellAdhere™ Vitronectin, Human, Solution

Purified human vitronectin solution for tissue engineering research, cell culture, and biochemistry

Catalog # 07004 0.2 mL

Product Description

Vitronectin is a common glycoprotein that is abundant in animal serum, and can also be found in the extracellular matrix deposited by many cell types. It is primarily used in cell culture as a surface coating to promote cell attachment and spreading (Felding-Habermann et al.; Braam et al.).

CellAdhere™ Vitronectin, Human, Solution is purified from human serum by the method of Hayman et al. using an anti-Vitronectin monoclonal antibody affinity column and sterilized by 0.2 µm filtration. Vitronectin has a purity of > 95% based on Coomassie brilliant blue stain of 7.5% SDS-PAGE. Product is dissolved in 0.2 mL of 0.15 M NaCl, 0.005 M HEPES buffer at approximately pH 7.4. Fibronectin contamination is less than 0.04% based on immunoblotting. This product is ideal for coating surfaces with a thin layer of protein to support cell attachment. The optimal protein concentration may vary depending on the cell type being used, and therefore must be titrated for best results.

Properties

Storage: Store at -20°C.
Shelf Life: Stable for 6 months from date of receipt.

Please refer to the Safety Data Sheet (SDS) for hazard information.

Handling / Directions For Use

PREPARING VITRONECTIN-COATED TISSUE CULTUREWARE

1. Thaw CellAdhere™ Vitronectin, Human, Solution at room temperature (15 - 25°C). Once thawed, use immediately. Do not re-freeze.
2. Dilute Vitronectin solution with sterile D-PBS Without Ca++ and Mg++ (Catalog #37350) or serum-free medium to obtain desired concentration.
   
   NOTE: Different dilutions will need to be tested to determine the optimal concentration required for each culture system. Typical coating concentrations range between 1 - 50 μg/mL.
3. Add desired amount of diluted Vitronectin solution on the surface of the cultureware to be coated.
   For example, use 1 mL to coat a 35 mm Culture Dish (Catalog #27100).
4. Cover coated cultureware to protect from contamination, then incubate at room temperature (15 - 25°C) for 1 - 2 hours.
5. Aspirate excess solution. Avoid scratching the coated surface.
6. Rinse coated cultureware with sterile distilled water.
7. Use coated cultureware immediately. Alternatively, keep sterile and store at 2 - 8°C damp or air dried.

References