BI
Biological Industries

Vitronectin ACF
(Human Recombinant)
Manufactured under animal-free conditions

Catalog# 05-754-0002, 200 µg

Description

Vitronectin is a secreted glycoprotein that can support cell adhesion through binding to various integrins and proteoglycans. Recombinant vitronectin ACF can function as a chemically-defined matrix component for the attachment of human embryonic stem cell and IPS cells in a feeder-free culture system. Recombinant Vitronectin ACF is a 459 amino acid, single-chain, monomeric protein, which migrates at an apparent molecular weight of 75 kDa by SDS-PAGE under reducing conditions. The calculated molecular weight of Vitronectin ACF is 52.2 kDa.

Storage & preparation

Vitronectin ACF is a lyophilized protein and should be stored at (-20)°C to (-80)°C up to expiration date. **Preparation of Vitronectin ACF, 0.5mg/ml**

Reconstitution procedure should be performed on ice.

1. Spin down the vial before reconstitution.
2. To the original 0.2mg vial add 0.4ml of sterile tissue culture water. DO NOT VORTEX.
3. Incubate on ice for a few minutes.
4. Gently mix by pipetting up and down.
5. Keep on ice for immediate use (up to 1 week at 2-8°C)

For long-term storage (3 months) aliquot and freeze at (-80)°C. Additional freeze-thaw cycles are not recommended.

Specifications

Sterile filtered and lyophilized.
Authenticity: Verified by N-terminal and Mass Spectrometry analyses.
Purity: ≥ 95% by SDS-PAGE gel and HPLC analyses.
Endotoxin: Endotoxin level is < 0.1 EU/µg of protein.
Protein Content: Verified by UV Spectroscopy and/or SDS-PAGE gel.
Biological Activity: Promotes attachment of hPSC in serum-free conditions.