Fibronectin, human recombinant, expressed in HEK 293 cells suitable for cell culture

Catalog Number ECM001
Storage Temperature –20 °C

Synonyms: FN, Cold-Insoluble Globulin (CIG)

Product Description
Fibronectin (FN) is a multifunctional glycoprotein, the gene of which is localized to human chromosome 2q34-36. FN exists as two major isoforms, one soluble and one insoluble form. The former is present in plasma, whereas the insoluble form resides in tissues and extracellular matrix (ECM) of cartilage. This product is a recombinant form of the plasma FN (uniprot number P02751). It contains no tags and is identical in sequence to the native plasma FN. Plasma FN is a major protein component of blood plasma (300 μg/ml) and is produced in the liver by hepatocytes.

Recombinant human fibronectin is expressed in HEK 293 cells as a glycoprotein with a calculated molecular mass of 259.5 kDa. This protein is produced in human cells using an all-human production system, without the use of serum. The human cells expression system allows human-like glycosylation and folding, and often supports better stability of the protein in culture.

This product is supplied as a powder, lyophilized from CAPS buffered saline. It is aseptically filled.

The biological activity of recombinant human fibronectin was tested in culture by measuring the ability of immobilized fibronectin to support adhesion of CHO cells.

Uniprot: P02751
Purity: ≥95% (SDS-PAGE)
Endotoxin level: ≤1.0 EU/μg FN (LAL)

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
Briefly centrifuge the vial before opening. Reconstitute in water to a concentration of 0.1–1 mg/mL. Do not vortex.

This solution can be stored at 2–8 °C for up to 1 week. For extended storage, it is recommended to store in working aliquots at –20 °C.

Storage/Stability
Store the lyophilized product at –20 °C. The product is stable for at least 2 years as supplied.

After reconstitution, it is recommended to store the protein in working aliquots at –20 °C.

References

BG,MAM 01/18-1