



Recombinant Protein Technical Manual

**Recombinant Human Fibronectin/FN Protein
(Active)**
RPES4158

Product Data:

Product SKU: RPES4158

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P02751

Protein Information:

Molecular Mass: 62.7 kDa

AP Molecular Mass: 60 kDa

Tag:

Bio-activity: Measured by its ability to support cell attachment and spreading when used as a substratum for cell culture. The ED50 for this effect is 0.1-0.5 ug/ml.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 12.5 mM Sodium Citrate, 1.25% Sucrose, pH 6.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Fibronectin; FN1; CIG; ED-B; FINC; FN; FNZ; GFND; GFND2; LETS; MSF

Immunogen Information:

Sequence: Pro1270-Ser1546&Ala1721-Thr2016

Background:

Fibronectin1(FN1) is a secreted protein and contains 12 fibronectin type-I domains, fibronectin type-II domains and 16 fibronectin type-III domains. Recombinant human fibronectin fragment, is a protein of ~63 kDa containing a central cell-binding domain, a high affinity heparin-binding domain II, and CS1 site within the alternatively spliced III CS region of human fibronectin. Cells bind to a VLA-4 ligand, a CS-I site, and a VLA-5 ligand, a cell attachment domain, and virus vectors binds to a heparin binding domain II, which co-locates the cell and the virus vector on NovoNectin. This process enhances the density of both cells and vectors, and facilitates the gene transduction in the result.