

Recombinant Human Fibronectin/FN Protein (His & Avi Tag)



Catalog Number:PKSH033677

Note: Centrifuge before opening to ensure complete recovery of vial contents.

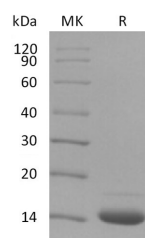
Description

Synonyms	Fibronectin;FN1;CIG;ED-B;FINC;FN;FNZ;GFND;GFND2;LETS;MSF
Species	Human
Expression Host	E.coli
Sequence	Glu1266-Thr1356
Accession	P02751-15
Calculated Molecular Weight	13.4 kDa
Observed molecular weight	15 kDa
Tag	N-His-Avi

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, 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 PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Fibronectin is a high-molecular weight glycoprotein of the extracellular matrix that binds to membrane-spanning receptor proteins called integrins. Similar to integrins; fibronectin binds extracellular matrix components such as collagen; fibrin; and heparan sulfate proteoglycans. Fibronectin plays a major role in cell adhesion; growth; migration; and differentiation; and it is important for processes such as wound healing and embryonic development. Altered fibronectin expression; degradation; and organization has been associated with a number of pathologies; including cancer and fibrosis. Anastellin binds fibronectin and induces fibril formation. This fibronectin polymer; named superfibronectin; exhibits enhanced adhesive properties. Both anastellin and superfibronectin inhibit tumor growth; angiogenesis and metastasis. Anastellin activates p38 MAPK and inhibits lysophospholipid signaling.

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