Recombinant Human FGF-1/FGFa Protein

Catalog Number:PKSH032431

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

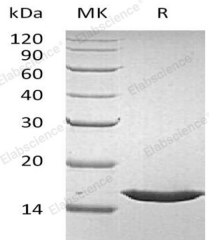
Description

Synonyms	Fibroblast Growth Factor 1;FGF-1;Acidic Fibroblast Growth Factor;aFGF;Endothelial Cell Growth Factor;ECGFHeparin-Binding Growth Factor 1;HBGF-1;FGF1;FGFA
Species	Human
Expression Host	E.coli
Sequence	Phe16-Asp155
Accession	P05230
Calculated Molecular Weight	16.8 kDa
Observed molecular weight	18 kDa
Tag	C-His

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS,pH 8.0. 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



> 98 % as determined by reducing SDS-PAGE.

Background

FGF acidic; also known as ECGF; FGF-1and HBGF-1; is a non-glycosylated heparin binding growth factor that is expressed in the brain; kidney; retina; smooth muscle cells; bone matrix; osteoblasts; astrocytes and endothelial cells. It is a mitogenic peptide that is produced by multiple cell types and stimulates the proliferation of cells of mesodermal; ectodermal; and endodermal origin. Its association with heparan sulfate is a prerequisite for activation of FGF receptors. Internalized FGF acidic migrates to the nucleus where it is phosphorylated by nuclear PKC delta; exported to the cytosol; dephosphorylated; and degraded. Intracellular FGF acidic inhibits p53 activity and proapoptotic signaling.

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