

## Recombinant Human FGF-1/FGFa Protein

**Catalog Number:** PKSH032431

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

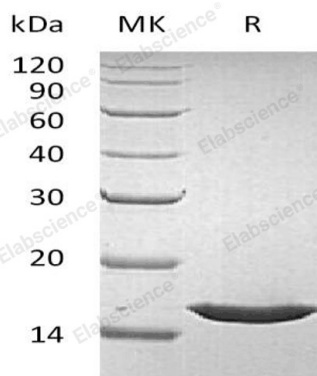
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human FGF-1;FGFa protein Phe16-Asp155, with an C-terminal His
<b>Calculated MW</b>	16.8 kDa
<b>Observed MW</b>	18 kDa
<b>Accession</b>	P05230
<b>Bio-activity</b>	Measure by its ability to induce 3T3 cells proliferation. The ED <sub>50</sub> for this effect is <0.3 ng/mL. The specific activity of recombinant human FGF-1 is > 1 x 10 <sup>6</sup> IU/mg.

### Properties

<b>Purity</b>	> 98 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	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-1 and 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.

### For Research Use Only

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