Recombinant Human FGF-1/FGFa Protein

Catalog Number: PKSH032431

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

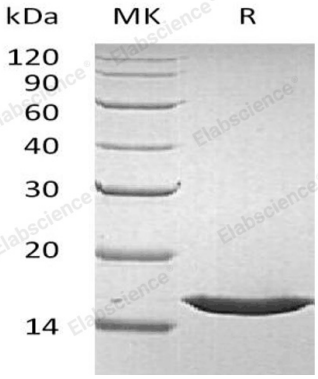
Description

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

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% Tween 80 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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