Product Data:

Product SKU: RPES3802

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P05230

Protein Information:

Molecular Mass: 15.9 kDa

AP Molecular Mass: 16 kDa

Tag:

Bio-activity: Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED50 for this effect is 0.2-2 ng/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℃ 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 a 0.2 µm filtered solution of 20mM Tris, 400mM NaCl, 1mM DTT, pH 8.0 .

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

Application: Cell Culture

Synonyms: Fibroblast Growth Factor 1; FGF; Acidic Fibroblast Growth Factor; aFGF; Endothelial Cell Growth Factor; ECGFHeparin-Binding Growth Factor 1; HBGF; FGF1; FGFA

Sequence: Phe16-Asp155

Background:

FGF acidic, also known as ECGF, FGFand HBGF, 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.