Datasheet for ABIN7318475

FGF1 Protein

Go to Product page

Overview

Quantity:	100 µg
Target:	FGF1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Recombinant Human FGF-1/FGFa Protein (Active)
Sequence:	Phe16-Asp155
Characteristics:	Recombinant Human Fibroblast growth factor 1/Fibroblast Growth Factor Acidic is produced by our E.coli expression system and the target gene encoding Phe16-Asp155 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED50 for this effect is 0.2-2 ng/ml.

Target Details

Target:	FGF1
Alternative Name:	FGF-1/FGFa (FGF1 Products)

Copyright antibodies-online. All rights reserved.

Target Details

Background:	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. Synonym: Fibroblast Growth Factor 1, FGF-1, Acidic Fibroblast Growth Factor, aFGF, Endothelial Cell Growth Factor, ECGFHeparin-Binding Growth Factor 1, HBGF-1, FGF1, FGFA
Molecular Weight:	15.9 kDa
UniProt:	P05230
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 400 mM NaCl, 1 mM DTT, pH 8.0 .
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.