

Datasheet for ABIN2017849

FGF1 Protein (AA 16-155, Isoform 1)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	FGF1
Protein Characteristics:	Isoform 1, AA 16-155
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50<0.3 ng/mL, measured by a cell proliferation assay of 3T3 Cells, corresponding to a specific activity of $>3.3 \times 10^6$ IU/mg in the presence of 10 µg/mL of heparin.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	FGF1
Alternative Name:	Fibroblast Growth Factor-Acidic(FGF-Acidic) (FGF1 Products)
Background:	Fibroblast Growth Factor- acidic (FGF-acidic), also known as FGF-1 and endothelial cell growth factor, is a member of the FGF family which currently contain 23 members. FGF acidic and basic, unlike the other members of the family, lack signal peptides and are apparently secreted by mechanisms other than the classical protein secretion pathway. FGF acidic has been

Target Details

detected in large amounts in the brain. Other cells known to express FGF acidic include hepatocytes, vascular smooth muscle cells, CNS neurons, skeletal muscle cells, fibroblasts, keratinocytes, endothelial cells, intestinal columnar epithelium cells and pituitary basophils and acidophils. As with other FGF's, FGF acidic exhibits considerable species cross reactivity. FGF acidic and FGF basic stimulate the proliferation of all cells of mesodermal origin, and many cells of neuroectodermal, ectodermal and endodermal origin. Recombinant human Fibroblast Growth Factor- acidic (rhFGF-acidic) produced in E. coli is a single non-glycosylated polypeptide chain containing 140 amino acids. A fully biologically active molecule, rhFGF-acidic has a molecular mass of 15.8 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.

Synonyms: HBGF-1, ECGF-beta, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA, GLI0703, FGF1, FGF-a

Molecular Weight:	15.8 kDa, observed by reducing SDS-PAGE.
UniProt:	P05230
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant human Fibroblast Growth Factor- acidic (rhFGF-acidic) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhFGF-acidic should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Expiry Date:	6 months