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## Datasheet for ABIN2115457 FGF1 Protein (AA 2-155)



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Quantity:	50 µg
Target:	FGF1
Protein Characteristics:	AA 2-155
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Product Details	
Purpose:	Recombinant Human Fibroblast Growth Factor 1/FGF-1/FGFa (Ala2-Asp155)
Sequence:	AEGEITTFTA LTEKFNLPPG NYKKPKLLYC SNGGHFLRIL PDGTVDGTRD RSDQHIQLQL SAESVGEVYI KSTETGQYLA MDTDGLLYGS QTPNEECLFL ERLEENHYNT YISKKHAEKN WFVGLKKNGS CKRGPRTHYG QKAILFLPLP VSSD
Characteristics:	Recombinant Human Fibroblast growth factor 1 is produced with our E. coli expression system. The target protein is expressed with sequence (Ala2-Asp155) of Human FGF1 fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test
Target Details	
Target:	FGF1

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Target Details			
Alternative Name:	Fibroblast Growth Factor 1 (FGF1 Products)		
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.		
	Synonyms: Fibroblast Growth Factor 1, FGF-1, Acidic Fibroblast Growth Factor, aFGF,		
	Endothelial Cell Growth Factor, ECGF Heparin-Binding Growth Factor 1, HBGF-1, FGF1, FGFA		
Molecular Weight:	31.6 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:	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL.		
	Dissolve the lyophilized protein in ddH20.		
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.		
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.		
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.		
Storage:	4 °C/-20 °C/-80 °C		
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.		
	Reconstituted protein solution can be stored at 4-7°C for 2-7 days.		
	Aliquots of reconstituted samples are stable at < -20°C for 3 months.		

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