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Datasheet for ABIN7535085 FGF1 Protein (His tag)

Overview

Quantity:	100 µg
Target:	FGF1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FGF1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human FGF-1/aFGF Protein
Sequence:	FNLPPGNYKK PKLLYCSNGG HFLRILPDGT VDGTRDRSDQ HIQLQLSAES VGEVYIKSTE TGQYLAMDTD GLLYGSQTPN EECLFLERLE ENHYNTYISK KHAEKNWFGV LKKNGSCKRG PRTHYGQKAI LFLPLPVSSD
Specificity:	Phe16-Asp155
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 1.0 EU/µg of the protein by LAL method.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human FGF1 at 5 µg/mL (100 µL/well) can bind Recombinant Human FGFR3 with a linear range of 0.5-1.5 µg/mL. 2. Measured in a cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts. The ED ₅₀ for this effect is typically 22-140 pg/mL.

Target Details

Target:	FGF1
Alternative Name:	FGF-1/aFGF (FGF1 Products)
Background:	AFGF, ECGF, ECGF-beta, ECGFA, ECGFB, FGF-1, FGF-alpha, FGFA, GLIO703, HBGF-1, HBGF1,FGF1,ECGF,ECGF-beta,ECGFA,ECGFB,FGF-1,FGF-alpha,FGFA,GLIO703,HBGF-1,HBGF1
Gene ID:	2246
UniProt:	P05230-1
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:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of 50 mM MOPS,100 mM Na2SO4,10 mM EDTA, pH 7.9
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.