

FGF-1/FGF-acidic, human recombinant

CATALOG #:	4034-10	10 µg
	4034-50	50 µg
	4034-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per µg of FGF-1.	
MOL. WEIGHT:	15.8 kDa	
FORM:	Lyophilized from 1 mg/ml solution of 0.1 M NaCl, 10 mM Tris, pH 7.6.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in 10 mM Tris, pH 7.6 to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use. Repeated freeze/thaw cycles will result in some loss of activity.

STORAGE CONDITIONS:

The lyophilized FGF-1 is best-stored desiccated below 0°C. Reconstituted FGF-1 should be stored at -20°C in working aliquots. For long term storage it is recommended to add a carrier protein (e.g., 0.1% BSA).

DESCRIPTION:

FGF-1 is an acidic heparin binding growth factor that stimulates the proliferation of a wide variety of cells including mesenchymal, neuroectodermal and endothelial cells. Recombinant human FGF-1 is a 15.8 kDa protein containing 140 amino acid residues.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is <10 ng/ml, corresponding to a specific activity of >1 x 10⁵ units/mg.

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