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Product datasheet for TP728188

Recombinant FGF-1 (Fibroblast growth factor-acidic), Human

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant FGF-1 (Fibroblast growth factor-acidic), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MFNLPPGNYKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAESVGEVYIKSTETGQYLAMDT DGLLYGSQTPNEECLFLERLEENHYNTYISKKHAEKNWFVGLKKNGSCKRGPRTHYGQKAILFLPLPVSSD with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 16.77 kDa. The protein migrates as 18kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 8.0.
Bioactivity:	Measure by its ability to induce 3T3 cells proliferation. The ED_{50} for this effect is <0.3 ng/mL. The specific activity of recombinant human FGF-1 is > 1 x 10^6 IU/mg.
Endotoxin:	<0.1 EU per 1 μg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 μg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P05230
Synonyms:	HBGF-1, ECGF-beta

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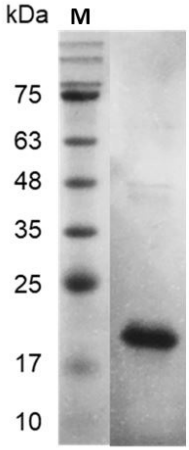
Summary: Fibroblast Growth Factors-1 (FGF-1) is a Growth Factors of mitogenic peptides which is a 15 kDa protein containing 139 amino acid residues. Fibroblast Growth Factors-1 is secreted by the macrophage which induce endothelial cell proliferation and angiogenesis. During wound injury, fibroblast Growth Factors-1 helps the tissue remodeling. When the fibroblast Growth Factors-1 binds with the FGFR on the cell membrane which is endocytosed by FGFR and induces the cell cycle.

Product images:



SDS- PAGE analysis of recombinant human FGF-1