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Product datasheet for TP720034XL

Fgf1 (NM_010197) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of mouse fibroblast growth factor acidic
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Phe16-Asp155
Tag:	Tag Free
Predicted MW:	15.8 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Bioactivity:	ED50 is less than 0.5 ng/ml as determined by the dose-dependent stimulation of thymidine uptake by 3T3 cells in the presence of Heparin. Specific Activity of 2.0 x 106 IU/mg.
Endotoxin:	< 0.1 EU per μg protein as determined by LAL test
Reconstitution Method:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH2O. It is not recommended to reconstitute a concentration less than 100 μg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_034327
Locus ID:	14164
UniProt ID:	P61148, Q6ZWS1
RefSeq Size:	3909
Cytogenetics:	18 20.74 cM
RefSeq ORF:	468
Synonyms:	Dffrx; Fam; Fgf-1; Fgfa

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Summary: Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Acts as a ligand for FGFR1 and integrins. Binds to FGFR1 in the presence of heparin leading to FGFR1 dimerization and activation via sequential autophosphorylation on tyrosine residues which act as docking sites for interacting proteins, leading to the activation of several signaling cascades. Binds to integrin ITGAV:ITGB3. Its binding to integrin, subsequent ternary complex formation with integrin and FGFR1, and the recruitment of PTPN11 to the complex are essential for FGF1 signaling. Induces the phosphorylation and activation of FGFR1, FRS2, MAPK3/ERK1, MAPK1/ERK2 and AKT1. Can induce angiogenesis.[UniProtKB/Swiss-Prot Function]

Product images: