

Product datasheet for **TP750001**

FGF1 (NM_000800) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human Fibroblast Growth Factor-acidic (FGF1) produced in E. coli
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region (Phe16-Asp155) of human FGF1
Tag:	Tag Free
Predicted MW:	15.9 kDa
Concentration:	Resuspend the protein to the desired concentration in proper buffer.
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a sterile solution containing 50 mM Tris-Cl, pH 7.5, 150 mM NaCl
Bioactivity:	Measured in a cell proliferation assay using 3T3 cells. ED50 for this effect is typically 0.031 - 0.046 ng/ml.
Endotoxin:	< 0.1 EU per 1 µg of the protein by the LAL
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000791
Locus ID:	2246
UniProt ID:	P05230
RefSeq Size:	4162
Cytogenetics:	5q31.3
RefSeq ORF:	465
Synonyms:	AFGF; ECGF; ECGF-beta; ECGFA; ECGFB; FGF-1; FGF-alpha; FGFA; GLIO703; HBGF-1; HBGF1



[View online »](#)

Summary:

The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Multiple alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Jan 2009]

Protein Families:

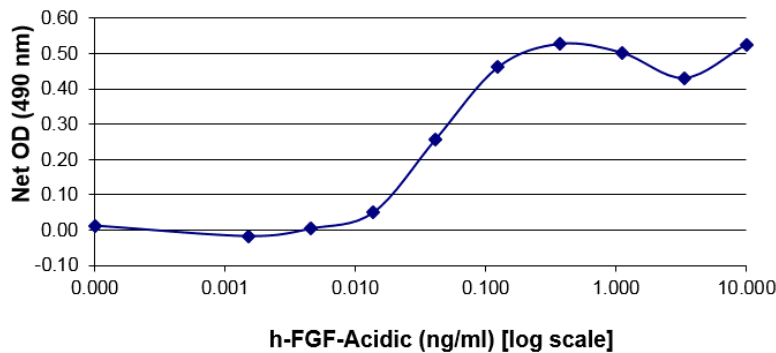
Druggable Genome, Secreted Protein

Protein Pathways:

MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

Product images:


Proliferation Assay Human-FGF-Acidic using 3T3 cells



Cell Proliferation Assay: 3T3 fibroblast cells were cultured in increasing concentration (0 to 10 ng/ml) of h-FGF-Acidic growth factor and cell density was measured after 8.5 hours at 490 nm. The ED50 for this effect is typically 0.0031-0.046 ng/ml.