

Human CellExp™ FGF-2/FGF Basic, Human Recombinant

CATALOG #:	6448-10	10 µg
	6448-50	50 µg
ALTERNATE NAMES:	Prostatropin, HBGH-2, HBGF-2, FGF-2, FGF-b.	
SOURCE:	Human Cell Expressed	
PURITY:	> 95% by SDS-PAGE	
MOL. WEIGHT:	17 kDa, monomer, non-glycosylated containing 154 amino acids	
FORMULATION:	Lyophilized from a PBS solution.	
RECONSTITUTION:	Reconstitute in sterile PBS containing 0.1% endotoxin-free, recombinant human serum albumin.	

STORAGE CONDITIONS:

Store at -20 °C or -80 °C. After reconstitution, divide into small aliquots and store at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles.

AMINO ACID SEQUENCE:

PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQAEERG
VVSIIKGVCANRYLAMKEDGRLLASKCVTDECFERLESNNYNTYRSRKYTSWYVALKRTG
QYK

ADVANTAGES:

- Animal-derived product free
- High Activity
- Authentic Glycosylation

DESCRIPTION:

FGF-basic 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. Three alternatively spliced variants encoding different isoforms have been described. The heparin-binding growth factors are angiogenic agents *in vivo* and are potent mitogens for a variety of cell types in vitro. There are differences in the tissue distribution and concentration of these 2 growth factors. This protein is engineered to enhance its thermostability without modification of biological function.

BIOLOGICAL ACTIVITY:

ED₅₀ is 0.03 ng/ml. The specific activity was determined by the dose-dependent stimulation of the proliferation of the Balb/c 3T3 cell line.

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

- Human Cell^{exp} Human Recombinant FGF-4 (Cat # 6449-10, -50)
- Human Cell^{exp} Human Recombinant FGF-7 (Cat # 6450-10, -50)
- Human Cell^{exp} Human Recombinant FGF-8b (Cat # 6451-10, -50)
- FGF- basic 147, human recombinant (Cat # 4036-10, -50, -1000)
- FGF-1, human recombinant (Cat # 4034-10, -50, -1000)
- FGF-1, murine recombinant (Cat # 4035-10, -50, -1000)
- FGF-10/KGF-2, human recombinant (Cat # 4060-25, -100, -1000)
- FGF-18, human recombinant (Cat # 4082-25, -100, -1000)
- FGF-19, human recombinant (Cat # 4542-25, -100, -1000)
- FGF-2, bovine recombinant (Cat # 4040-10, -50, -1000)
- FGF-2, human recombinant (Cat # 4037-10, -50, -1000)
- FGF-2, murine recombinant (Cat # 4038-10, -50, -1000)
- FGF-2, rat recombinant (Cat # 4039-10, -50, -1000)
- FGF-20, human recombinant (Cat # 4589-20, -100)
- FGF-21, human recombinant (Cat # 4066-100, -1000)
- FGF-21, murine recombinant (Cat # 4067-10, -1000)
- FGF-22, human recombinant (Cat # 4063-10, -100, -1000)
- FGF-4, human recombinant (Cat # 4043-25, -100, -1000)
- FGF-7/KGF, human recombinant (Cat # 4050-10, -50, -1000)
- FGF-8, human recombinant (Cat # 4053-25, -100, -1000)
- FGF-9, human recombinant (Cat # 4056-20, -1000)