

FGF-6, Human Recombinant

CATALOG #:	7148-10	10 µg
	7148-50	50 µg
ALTERNATE NAMES:	Fibroblast Growth Factor-6, HBGF-6, HST-2	
SOURCE:	E. Coli	
PURITY:	≥ 95% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	18.7 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Tris, pH 7.5, and 50 mM NaCl.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of ≤ 0.5 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

FGF-6 is a secreted heparin binding growth factor that is a member of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-6 is expressed in leukemia cell lines with platelet megakaryocytic differentiation potential. It signals through FGFR 1c, 2c, and 4. Recombinant human FGF-6 is an 18.7 kDa protein consisting of 168 amino acid residues.

BIOLOGICAL ACTIVITY:

Determined by the dose dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors. The expected ED₅₀ is ≤ 0.5 ng/ml corresponding to a specific activity of ≥ 2 x 10⁶ units/mg.

AMINO ACID SEQUENCE:

MGTRANNTLL DSRGWGTLLS RSRAGLAGEI AGVNWESGYL VGIKRQRRLY
CNVGIGFHLQ VLPDGRISGT HEENPYSLLE ISTVERGVVS LFGVRSALFV
AMNSKGRLYA TPSFQEECKF RETLLPNNYN AYESDLYQGT YIALSKYGRV
KRGSKVSPIM TVTHFLPRI

RELATED PRODUCTS:

- FGF- basic, murine recombinant (Cat # 7145-10, -50)
- 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)

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