

41880. Human Fibroblast Growth Factor 2 (hFGF2)

Origin:	Recombinant	Cat. No.:	41880
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	E.coli	Purity:	>90%
Other names:	FGF acidic and ECGF	Species:	Human

Description

Expressed in E.coli with total 193 AA. Mw: 21.8 KDa (calculated). N-terminal 6xHis-tag, EK recognition site and TEV cleavage site, 47 extra AA (highlighted). Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

FGF2, also called FGF basic, is a member of the FGF family of at least 23 related mitogenic proteins which has been isolated from a number of sources, including neural tissue, pituitary, adrenal cortex, corpus luteum, and placenta. FGF2 stimulates the proliferation of all cells of mesodermal origin and many cells of neuroectodermal, ectodermal, and endodermal origin. Besides, FGF2 induces neuron differentiation, survival, regeneration, and also modulates embryonic development and differentiation. These observed in vitro functions of FGF2 suggest FGF2 may play a role in vivo in the modulation of such normal processes as angiogenesis, wound healing and tissue repair, embryonic development and differentiation, and neuronal function and neural degeneration. Additionally, FGF basic may participate in the production of a variety of pathological conditions resulting from excessive cell proliferation and excessive angiogenesis.

Amino Acid Sequence

**MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSELEENLYFQGAPALPEDGGSGA
FPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQAEERGVSIVKVCANRYLA
MKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPQKAIL
FLPMSAKS**

Applications: Standard ELISA test, Western Blot, functional study.

Formulation: Lyophilized in 20mM phosphate, 0.01mM heparin and 500mM NaCl.

Reconstitution: Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.

Storage: Store lyophilized protein at -20°C . Aliquot reconstituted protein and store at -80°C . Avoid repeated freezing/thawing cycles.

Quality Control Test:

BCA to determine quantity of the protein.
SDS PAGE to determine purity of the protein.

SDS-PAGE gel
