

Product datasheet for **TP723719**

FGF2 (NM_002006) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human fibroblast growth factor 2 (basic) (FGF2)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Human FGF-basic, the region of Ala144-Ser288, from gene Accession# NM_002006
Tag:	Tag Free
Predicted MW:	16.3 kDa
Concentration:	lot specific
Purity:	Purity is >98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	10 mM NaH ₂ PO ₄ , 150 mM NaCl, pH 7.2, 1 mM DTT
Bioactivity:	The ED50 is 1 - 4 ng/ml, corresponding to a specific activity of 1 - 0.25 x 10 ⁶ units/mg, determined by the dose dependent stimulation of NIH/ 3T3 cell proliferation. The bioactivity is equivalent to competitor reported values.
Endotoxin:	Less than 0.01 ng per ug protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_001997
Locus ID:	2247
UniProt ID:	P09038
RefSeq Size:	6803
Cytogenetics:	4q28.1
RefSeq ORF:	864
Synonyms:	BFGF; FGF-2; FGFB; HBGF-2



[View online »](#)

Summary:

The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

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

Product images: