

## Product datasheet for **TP723110**

### 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:	AAGSITTLPA LPEDGGSGAF PPGHFKDPKR LYCKNGGFFL RIHPDGRVDG VREKSDPHIK LQLQAEERGV VSIKGVCANR YLAMKEDGRL LASKCVTDEC FFFERLESNN YNTYRSRKYT SWYVALKRTG QYKLGSKTGP GQKAILFLPM SAKS
Tag:	Tag Free
Predicted MW:	17.2 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 µM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED50 is ≤ 0.1 ng/ml, corresponding to a specific activity of ≥ 1 × 10 <sup>7</sup> units/mg.
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001997</a>
Locus ID:	2247
UniProt ID:	<a href="#">P09038</a>
RefSeq Size:	6803
Cytogenetics:	4q28.1
RefSeq ORF:	864
Synonyms:	BFGF; FGF-2; FGFB; HBGF-2



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**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:**