

Active GMP Recombinant Human bFGF Protein

Cat. No. FGF2-01HG Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human FGF2 protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
Description	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
Form	Lyophilized powder
Endotoxin	<20 EU/mg
Bio-activity	>5.0 x 10 ⁷ IU/mg
Purity	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.

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Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)
Storage	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhFGF2 be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 [Homo sapiens (human)]
Official Symbol	FGF2
Synonyms	BFGF; FGFB; FGF-2; HBGF-2
Gene ID	2247
mRNA Refseq	NM_001361665.2
Protein Refseq	NP_001348594.1
UniProt ID	P09038
MIM	134920

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