

Active Recombinant Human FGF2 Protein, Tag Free, GMP Grade

Cat. No. FGF2-05H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF2 Protein without tag was expressed in E. coli
Species	Human
Source	E. coli
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	White or off-white lyophilized powder
Bio-activity	$\geq 1.0 \times 10^7$ U/mg pro.
Molecular Mass	17 ± 1.7 kDa
Purity	$\geq 98\%$ (SDS-PAGE)

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Applications	1. Cell Culture: Supports various cell culture applications, promoting angiogenesis, fibroblast mitosis, etc. 2. As a Medication (gel, eye drops, etc.): Used for burn wounds, acute wounds; surgical incisions, chronic wounds; post-cosmetic surgery wounds, dermabrasion, laser-treated wounds, etc. 3. Cultured Meat Production: Healthier-no antibiotics used; Safer-eliminates risks of infections like mad cow disease and foot-and-mouth disease; More environmentally friendly-reduces land and water pollution and mitigates the greenhouse effect; More ethical-reduces animal suffering.
Notes	This product should not be stored in high-temperature environments for extended periods, and contamination should be avoided during handling.
Reconstitution	It is recommended to briefly centrifuge the tube before opening to ensure the powder settles at the bottom. Then, dissolve the powder in sterilized deionized water to prepare a 100 µg/mL stock solution, which can be stored stably at 2 to 8 centigrade for up to one week. When diluting to lower concentrations (not below 10 µg/mL), 0.1% tissue culture-grade BSA or HSA should be added. To extend the storage time, freezing at -80 or -20 centigrade is recommended. Avoid repeated freezing and thawing. The optimal concentration for this product should be determined experimentally based on each specific application.
Solubility	Soluble in water or buffer solution.
Isoelectric Point	9.5~9.6
GENE INFORMATION	
Gene Name	FGF2 fibroblast growth factor 2 [Homo sapiens (human)]
Official Symbol	FGF2

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Synonyms	FGF2; fibroblast growth factor 2; BFGF; FGFB; FGF-2; HBGF-2; fibroblast growth factor 2; basic fibroblast growth factor bFGF; fibroblast growth factor 2 (basic); heparin-binding growth factor 2; prostatropin
Gene ID	2247
mRNA Refseq	NM_002006
Protein Refseq	NP_001997
MIM	134920
UniProt ID	P09038
SDS-PAGE	