Active Recombinant Human FGF-10 Protein

Cat. No. FGF10-81H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF-10 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Fibroblast growth factor 10 (FGF-10) is a growth factor that is important during embryonic development, especially during lung, limb, brain, heart, and kidney morphogenesis. FGF-10 is expressed in mesenchymal cells and facilitates epithelial-mesenchymal signaling through binding the epithelially expressed FGF receptor 2b (FGFR2b). FGF-10 also functions as a mitogen for keratinizing epidermal cells, and induces the migration and invasion of cancer cells.
Bio-activity	4MBr-5 cell proliferation, ≤200 ng/mL; ≥5.0 x 10^3 units/mg
Molecular Mass	Monomer, 19.3 kDa (170 aa)
AA Sequence	MLGQDMVSPEATNSSSSSFSSPSSAGRHVRSYNHLQGDVRWRKLFSFTKYFLKIEK NGKVSGTKKENCPYSILEITSVEIGVVAVKAINSNYYLAMNKKGKLYGSKEFNNDCKL KERIEENGYNTYASFNWQHNGRQMYVALNGKGAPRRGQKTRRKNTSAHFLPMVV HS
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE

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Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	FGF10 fibroblast growth factor 10 [Homo sapiens (human)]
Official Symbol	FGF10
Synonyms	FGF10; fibroblast growth factor 10; FGF-10; keratinocyte growth factor 2; produced by fibroblasts of urinary bladder lamina propria;
Gene ID	2255
mRNA Refseq	NM_004465

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Protein Refseq	NP_004456
MIM	602115
UniProt ID	O15520

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