

GFH183AF Recombinant Human FGF-10 (Animal-Free)

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.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	170 aa
Molecular Weight	19.3 kDa
Source	E. coli
Accession Number	O15520
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

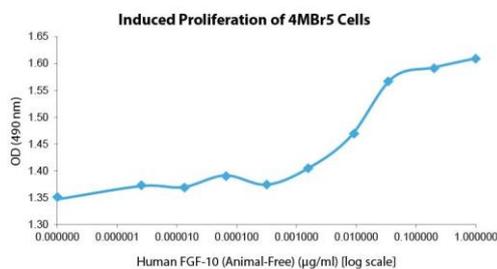
Specifications

Alternative Names	Fibroblast Growth Factor 10, FGF10, FGF 10, Keratinocyte Growth Factor 2
Biological Activity	Human FGF-10 (Animal-Free) is fully biologically active when compared to standard. The activity is determined by a proliferation assay using 4MBr-5 cells and it is typically less than 200 ng/ml. This corresponds to an expected specific activity of 5.0×10^3 units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MLGQDMVSPE ATNSSSSSFS SPSSAGRHRV SYNHLQGDVR WRKLFSTFKY FLKIEKNGKV SGTKKENCYP SILEITSVEI GVVAVKAINS NYYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNGKGAPRR GQKTRRKNTS AHFLPMVVHS

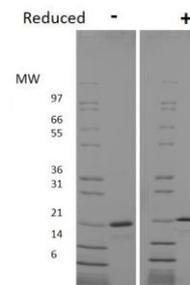
Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced proliferation of 4MBr-5 cells assay for Human FGF-10. Cell proliferation was measured to calculate the ED50, which is as expected less than 200 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human FGF-10 has a predicted Mw of 19.3 kDa.