

GFH176AF Recombinant Human FGF-8 (Animal-Free)

Description

Fibroblast Growth Factor 8 (FGF--8) is a critical mitogenic factor that is required for normal development of the eye, ear, brain, and limb. FGF8 broadly functions to promote cell proliferation, differentiation, and migration. Overexpression of FGF-8 increases tumor growth and angiogenesis. Human and mouse FGF-8 proteins show 100% homology.

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

Length	194 aa
Molecular Weight	22.5 kDa
Source	E. coli
Accession Number	P55075
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

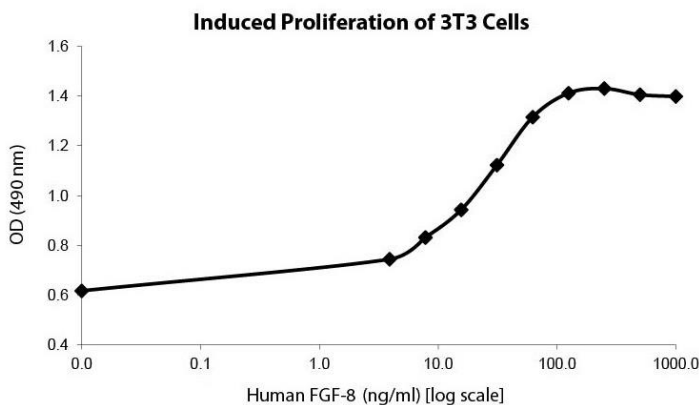
Specifications

Alternative Names	Fibroblast Growth Factor 8, FGF8, FGF 8, androgen-induced growth factor, AIGF, heparin-binding growth factor 8, HBGF-8
Biological Activity	Human FGF-8 is fully biologically active when compared to standard. The activity is determined by the dose-dependent proliferation of BALB/c 3T3 cells and it is typically less than 150 ng/ml. This corresponds to an expected specific activity of 6.7 x 10 ⁵ 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 5 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
AA Sequence	<pre>MQVTVQSSPN FTQHVREQSL VTDQLSRRLI RTYQLYSRTS GKHVQVLANK RINAMAEDGD PFAKLIVETD TFGSRVRVRG AETGLYICMN KKGKLIAKSN GKGKDCVFTE IVLENNYTAL QNAKYEGWYM AFTRKGRPRK GSKTRHQHRE VHFMRKLRPG HHTTEQSLRF EFLNYPPFTR SLRGSQRTWA PEPR</pre>

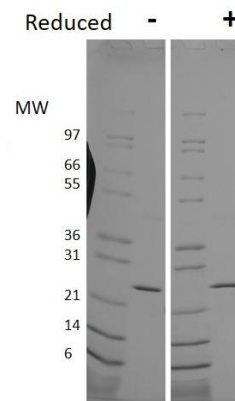
Preparation and Storage

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. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate.
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 BALB/c 3T3 cells assay for Human FGF-8. Cell proliferation was measured to calculate the ED50, which is as expected less than 150 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-8 has a predicted Mw of 22.5 kDa.