



Recombinant Human FGF-8a

20180503BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-438
Size:	25 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	2253
Synonyms:	Fibroblast Growth Factor-8, FGF-8a, AIGF, HBGF-8

FGF-8 is a heparin-binding growth factor belonging to the FGF family. Proteins of this family play a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. There are 4 known alternate spliced forms of FGF8; FGF-8a, FGF-8b, FGF-8e and FGF-8f. The human and murine FGF-8a and FGF-8b are identical, unlike human and mouse FGF-8e and FGF-8f, which are 98% identical. FGF-8 targets mammary carcinoma cells and other cells expressing the FGF receptors. CHO cell-derived Recombinant Human FGF-8a is a 21.2 kDa protein consisting of 182 amino acid residues.

Sequence

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QHVREQSLVT DQLSRRLIRT YQLYSRTSGK HVQVLANKRI  
NAMAEDGDF AKLIVETDTF GSRVRVRGAE TGLYICMNNK  
GKLIAKSNGK GKDCVFTEIV LENNYTALQN AKYEGWYMAF  
TRKGRPRKGS KTRQHOREVH FMKRLPRGHH TTEQSLRFEF  
LNYPPFTRSL RGSQRTWAPE PR
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Database References

Protein RefSeq:	NP_149355.1
Uniprot ID:	P55075-2
mRNA RefSeq:	NM_033165.3

Product Specifications

Expressed in	E. coli
Purity	> 95% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng/µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	182
MW:	21.2 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Determined by a cell proliferation assay using balb/c 3T3 cells.