

FGF-8b recombinant protein

Recombinant human FGF-8b protein

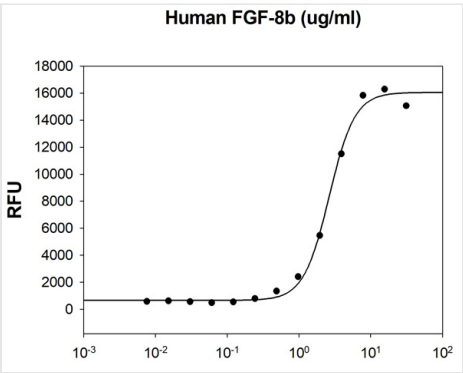
CATALOG # AAA48424	HOST HEK293	APPLICATIONS SDS-Page
------------------------------	-----------------------	---------------------------------

PRODUCT SYNONYMS

FGF-8b; Recombinant human FGF-8b protein; FGF8; AIGF; Androgen-induced growth factor; FGF-8; HBGF-8; Heparin-binding growth factor 8; HH6; KAL6; fibroblast growth factor 8; fibroblast growth factor 8 isoform B; FGF-8b recombinant protein

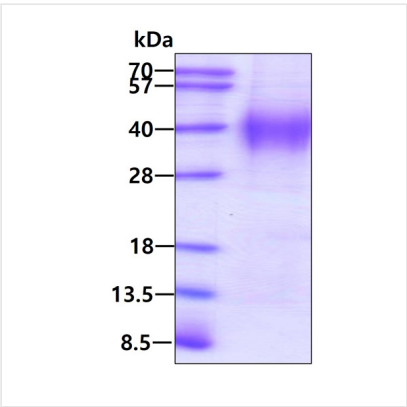
PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
Concentration	0.25 mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	23-215aa
Sequence	QVT VQSSPNFTQH VREQSLVTDQ LSRRLIRTYQ LYSRTSGKHV QVLANKRINA MAEDGDPAK LIVETDTFGS RVRVRGAETG LYICMNKKGK LIAKSNGKGK DCVFTEIVLE NNYTALQNAK YEGWYMAFTR KGRPRKGSKT RQHQRVHFM KRLPRGHHTT EQSLRFEFLN YPPFTRSLRG SQRTWAPEPR
Applicable Applications for FGF-8b recombinant protein	Bioactivity, SDS-PAGE
Species	Human
Tag	His-Tag
Predicted Nterm	Asp
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Bioactivity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells in the presence of 10 ug/ml of heparin. The ED50 range <= 5 ug/ml.
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.



Bioactivity

Human FGF-8b stimulates cell proliferation of the Balb/3T3 mouse embryonic fibroblast cells in the presence of 10 ug/ml of heparin. The ED50 range



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for FGF-8b recombinant protein	FGF-8b, also known as Fibroblast growth factor 8 isoform B, is a member of the fibroblast growth factor (FGF) family that plays 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 FGF-8; FGF-8a, FGF-8b, FGF-8e and FGF-8f. FGF-8 is widely expressed during embryogenesis, and mediates epithelial-mesenchymal transitions. It encodes a key signaling factor, and its precise regulation is essential for embryo patterning. FGF-8b shows the strongest receptor affinity and oncogenic transforming capacity. FGF-8 signaling from the apical ectodermal ridge (AER), which borders the distal end of the limb bud, is necessary for forming normal limbs. FGF-8 is responsible for cell proliferation and survival, as well. The ability for FGF-8 to regulate cell proliferation has caused interest in its effects on tumors or squamous cell carcinoma. Recombinant human FGF-8b, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for FGF-8b recombinant protein	Angiogenesis; Cardiovascular
References	Tanaka, A. et al. (1992) Proc. Natl. Acad. Sci. USA 89:8928-8932.; Ornitz DM, et al. (1996). The Journal of Biological Chemistry. 271: 15292-15297.; Crossley, P.H. et al. (1996) Cell, 84:127-136.; Estienne A, et al.(2018) Reproduction. 155:53-62.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	5174439
NCBI GeneID	2253
NCBI Accession #	NP_006110.1
NCBI GenBank Nucleotide #	NM_006119.4
UniProt Accession #	P55075; Q14915; Q15766; A1A514
Molecular Weight	26,525 Da
NCBI Official Full Name	fibroblast growth factor 8 isoform B
NCBI Official Synonym Full Names	fibroblast growth factor 8 (androgen-induced)
NCBI Official Symbol	FGF8
NCBI Official Synonym Symbols	HH6; AIGF; KAL6; FGF-8; HBGF-8
NCBI Protein Information	fibroblast growth factor 8; androgen-induced growth factor; heparin-binding growth factor 8
UniProt Protein Name	Fibroblast growth factor 8

UniProt Gene Name	FGF8
UniProt Synonym Gene Names	AIGF; FGF-8; AIGF; HBGF-8
UniProt Entry Name	FGF8_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/fgf8-recombinant-protein-hek293-bioactivity-sds-page/48424>