



**Cell Therapy Systems
Recombinant Human
Fibroblast Growth Factor-basic CTS™
(Amino Acid 1-155)
PRODUCT ANALYSIS SHEET**

Catalog Number:	CTP0261	CTP0263
Quantity:	100 µg	1 mg
Lot Number:	See product label	
Molecular Weight:	17.2 kDa	
Purity:	>95% pure by SDS-PAGE	
Amino Acid Sequence	MAAGSITTLP ALPEDGGSGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHI KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTDE CFFFERLESN NYNTYRSRKY TSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS	
Biological Activity:	ED ₅₀ range = 0.1-1.0 ng/mL (Specific Activity: 1.0 x 10 ⁷ – 1.0 x 10 ⁶ units/mg), determined by the dose dependent proliferation of BALB/3T3 cells. The optimal concentration for each specific application should be determined by an initial dose response assay.	
Formulation:	Lyophilized, carrier-free.	
Sterility:	Filtered prior to lyophilization through a 0.22 micron sterile filter.	
Endotoxin:	<0.1 ng/µg.	
Production:	Produced in <i>E. coli</i> and purified by sequential chromatography.	
Reconstitution Recommendation:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute lyophilized human FGFb in sterile, distilled water to a concentration of 0.1-0.5 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilution should be made in medium or buffered solution containing carrier protein, such as PBS with 0.1% BSA. It is recommended that all culture media containing supplements, such as growth factor, be sterile filtered prior to use for cell, gene, or tissue-based applications to minimize risk of contamination.	
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.	
Storage:	Lyophilized human FGFb should be stored at 2-8°C, preferably desiccated. Store reconstituted human FGFb at ≤ -20°C (not in a frost-free freezer). Keep freeze-thaw cycles to a minimum.	
Expiration Date:	Expires one year from date of receipt when stored as instructed.	

For Research Use or Non-Commercial Manufacturing of Cell Based Products for Clinical Research.
CAUTION: Not intended for direct administration into humans or animals

www.invitrogen.com

Manufactured under ISO 13485 Quality Standard

Invitrogen Corporation • 542 Flynn Rd • Camarillo • CA 93012 • Tel: 800.955.6288

For technical support or support related to CTS™ products, www.invitrogen.com/celltherapysupport

PICTS-Hu FGF-basic 1-155

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Important Licensing Information - These products may be covered by one or more Limited Use Label Licenses (see the Invitrogen Catalog or our website, www.invitrogen.com). By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses.



References:

Abraham, J.A., J. Whang, A. Tumolo, A. Mergia, J. Friedman, D. Gospodarowicz, and J.C. Fiddes (1986) Human basic fibroblast growth factor: nucleotide sequence and genomic organization. *EMBO J.* 5:2523-2528.

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Bruno, E., R.J. Cooper, E.L. Wilson, J.L. Gabilove, and R. Hoffman (1993) Basic fibroblast growth factor promotes the proliferation of human megakaryocyte progenitor cells. *Blood* 82:430-435.

Kitchens, D.L., E. Snyder, and D. Gottlieb (1994) FGF and EGF are mitogens for immortalized neural progenitors. *J. Neurobiol.* 25:797-807.

Izevbigie, E.B., J.S. Gutkind, and P.E. Ray (2000) Angiotensin II and basic fibroblast growth factor mitogenic pathways in human fetal mesangial cells. *Pediatr. Res.* 47:614-621.

Izevbigie, E.B., J.S. Gutkind, and P.E. Ray (2000) Isoproterenol inhibits fibroblast growth factor-2-induced growth of renal epithelial cells. *Pediatr. Nephrol.* 14:726-734.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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