

Recombinant Human Fibroblast Growth Factor-basic (Amino Acid 1–155)

Catalog Numbers PHG0264 (10 µg), PHG0266 (25 µg), PHG0261 (100 µg), PHG0263 (1 mg)

Pub. No. MAN0003579 Rev. A.0








Product specifications

Lot number	See product label.
Molecular weight	17.2 kDa
Purity	>95% as determined by SDS PAGE analysis.
Amino acid sequence	GHMAAGSITT LPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAE E RGVVSIGV S ANRYLAMKED GRLLASKSVT DECFFFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TPGGQKAILF LPMSAKS Amino acid sequence M134-S288, with an N-terminal Gly-His, C211S and C229S.
Biological activity	ED ₅₀ range 0.1–1.0 ng/mL (specific activity: 1.0 × 10 ⁷ to 1.0 × 10 ⁶ units/mg), determined by dose dependent proliferation of BALB/3T3 cells. Determine the optimal concentration for each specific application using an initial dose response assay.
Formulation	Lyophilized, carrier-free.
Sterility	Filtered before 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	Centrifuge the vial briefly, before opening to bring the contents to the bottom. Reconstitute the lyophilized protein in sterile, distilled water to a concentration of 0.1–0.5 mg/mL. Apportion the reconstituted protein into working aliquots and store at ≤ –20°C. Make any further dilutions of the reconstituted protein in medium, or buffered solution containing carrier protein (e.g., PBS with 0.1% BSA).
Suggested working dilutions	The optimal concentration should be determined for each specific application.
Storage	Store the lyophilized protein at 2–8°C, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at ≤ –20°C (not in a frost-free freezer). Avoid repeated freeze-thaw cycles.
Expiration date	Expires one year from date of receipt when stored as instructed.
References	<p>Fox, GM, Schiffer, SG, Rohde, MF, Tsai, LB, Banks, AR and Arakawa, T. (1988) Production, Biological Activity, and Structure of Recombinant Basic Fibroblast Growth Factor and an Analog with Cysteine Replaced by Serine. <i>J. Biol. Chem.</i> 263(34):18452-18458.</p> <p>Abraham, JA, Whang, J., Tumolo, A., Mergia, A., Friedman, J., Gospodarowicz, D., and Fiddes JC. (1986) Human basic fibroblast growth factor: nucleotide sequence and genomic organization. <i>EMBO J.</i> 5:2523–2528.</p> <p>Bruno, E., Cooper, RJ, Wilson, EL, Gabrilove, JL, and Hoffman R. (1993) Basic fibroblast growth factor promotes the proliferation of human megakaryocyte progenitor cells. <i>Blood</i> 82:430–435.</p> <p>Izevbigie, EB, Gutkind, JS, and Ray, PE. (2000) Angiotensin II and basic fibroblast growth factor mitogenic pathways in human fetal mesangial cells. <i>Pediatr. Res.</i> 47:614–621.</p> <p>Izevbigie, EB, Gutkind, JS, and Ray, PE. (2000) Isoproterenol inhibits fibroblast growth factor-2-induced growth of renal epithelial cells. <i>Pediatr. Nephrol.</i> 14:726–734.</p> <p>Kitchens, DL, Snyder, E., and Gottlieb, D. (1994) FGF and EGF are mitogens for immortalized neural progenitors. <i>J. Neurobiol.</i> 25:797–807.</p> <p>Seddon, A., Decker, M., Muller, T., Armellino, D., Kovsdi, I., Gluzman, Y., and Bohlen P. (1991) Structure/activity relationships in basic FGF. <i>Ann. N.Y. Acad. Sci.</i> 638:98–105.</p>

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Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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