

Heat Stable Recombinant Human Basic Fibroblast Growth Factor (bFGF)

Catalog Number PHG0367 (5 µg), PHG0368 (50 µg), PHG0369 (100 µg), PHG0360 (500 µg)

Pub. No. MAN0017959 Rev. B.0








Product specifications


Lot number	See product label.
Description	Basic FGF (also known as fibroblast growth factor-basic, FGF-basic, FGF-B or FGF2) is a member of the heparin binding growth factors family. Heat Stable Recombinant Human bFGF has comparable biological function relative to native bFGF. Unlike native bFGF, which has a half-life of less than 8 hours at 37°C, Heat Stable bFGF has been engineered to maintain activity at 37°C for at least 72 hours.
Molecular weight	19 kDa
Purity	>95% as determined by SDS PAGE analysis.
Protein length	155 amino acids + 20 amino acids for N-terminal tag for purification purposes.
Biological activity	ED ₅₀ 0.6–1.1 ng/mL, determined by a cell proliferation assay using NIH/3T3 mouse fibroblast cells. Determine the optimal concentration for each specific application using an initial dose response assay.
Formulation	Lyophilized from a solution containing 20 mM potassium phosphate and 750 mM sodium chloride, pH 7.5. Carrier-free.
Sterility	Filtered before lyophilization through a 0.22 micron sterile filter.
Endotoxin	≤1.0 EU/µg by LAL test
Production	Produced in <i>E.coli</i> .
Reconstitution recommendation	<p>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 1.0 mg/mL. Alternatively, reconstitute at lower concentrations in carrier-containing medium. Do not vortex. 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, such as PBS with 0.1% BSA.</p> <p>For the 5 µg unit size, reconstitute directly in carrier-containing medium. For other unit sizes, reconstitute to 1.0 mg/mL as follows:</p> <ul style="list-style-type: none">• 50 µg, reconstitute in 50 µL• 100 µg, reconstitute in 100 µL• 500 µg, reconstitute in 500 µL
Suggested working dilutions	The optimal concentration should be determined for each specific application.
Storage	Store the lyophilized protein at –20°C, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at –20°C (not in a frost-free freezer) for up to 12 months. Avoid repeated freeze-thaw cycles.
Expiration date	Expires one year from date of receipt when stored as instructed.

Limited product warranty

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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		

 **Manufacturer:** Life Technologies Corporation | 5781 Van Allen Way | Carlsbad, CA 92008

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