

Recombinant Human FGF-4 (Fibroblast Growth Factor-4)

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Catalog Number:	PHG0154
Quantity:	25 µg
Lot Number:	See product label.
Molecular Weight:	19.7 kDa, 182 amino acid residues.
Purity:	≥95% by SDS-PAGE and HPLC analysis.
Biological Activity:	ED ₅₀ ≤ 0.5 ng/mL (≥ 2 × 10 ⁶ units/mg), determined by the dose dependent stimulation of thymidine uptake by BaF3 cells expressing FGF-receptors. FGF-4 is a heparin binding growth factor expressed by tumor cells and embryonic cells which has mitogenic activity with fibroblasts and endothelial cells.
Formulation:	Lyophilized from 10 mM Sodium Phosphate, pH 7.4, with 100 mM NaCl. Filtered through a 0.2 micron filter prior to lyophilization.
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 in sterile, distilled water to a concentration of 0.1–1.0 mg/mL. <i>Do not vortex</i> . This solution can be stored at 2°C to 8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein, such as 0.1% BSA and store in working aliquots at –20°C to –80°C.
Suggested Working Dilutions:	The optimal concentration should be determined for each specific application.
Storage:	The lyophilized protein is stable at room temperature for 1 month, but should be kept at –20°C for long term storage, preferably desiccated. Working aliquots stored with a carrier protein are stable for at least 3 months at –80°C to –20°C. Avoid repeated freeze/thaw cycles.
Expiration Date:	See product label.
References:	Delli Bovi, P. et al. (1988) Mol. Cell. Biol. 8:2933. Taira, M. et al. (1987) Proc. Nat'l. Acad. Sci. USA 84:2980. Niswander, L. and Martin, G.R. (1992) Development 114:755.

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description
	Catalog Number
	Research Use Only
	Use by
	Manufacturer
	Without, does not contain
	Protect from light
	Directs the user to consult instructions for use (IFU), accompanying the product.

Symbol	Description
	Batch code
	In vitro diagnostic medical device
	Temperature limitation
	European Community authorized representative
	With, contains
	Consult accompanying documents

Limited Use Label License: Research Use Only

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

For Research Use Only. Caution: Not for human or animal therapeutic or diagnostic use.

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

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